

Vincent Teune

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SUMMARY

Full Stack Software Engineer, Cloud Engineer, and IoT Network Engineer with a strong background in Automation, API Development, Data Integrations, ETL Pipelines, Database architecture and management, IoT Wireless Networking Protocols, Hospitality, Operations and Logistics with a DevOps mindset looking for new projects.

PROFESSIONAL EXPERIENCE

Sr. Technical Specialist - Wireless - Network Automation

March 2025 - Current

The Walt Disney Company - Global Network Engineering Operations | Lake Buena Vista Florida | Full Time

- Oversee maintenance of ZigBee wireless network with ~50,000 connected devices.
- Managed multiple network infrastructure overhauls for door lock ZigBee Network resulting in a significant reduction in door lock related guest issues and financial losses across property.
- Design network infrastructure of ZigBee networks for new construction projects.
- Build and maintain data pipelines, servers, api's, and databases for IOT sensors, Guestroom Door Locks, and DGN Network Infrastructure.
- Build training materials, process templates, and troubleshooting guidelines for field technicians.
- Resident Subject Matter Expert on electronic access control systems with a focus on Assa Abloy wireless hospitality products and VisiOnline.
- Design, prototype, and manufacture custom hardware solutions with CAD Software and 3D Printing.
- Design and prototype custom IoT sensors and associated firmware with atmega/rp2040 chipsets.
- Pilot new product solutions, database architectures, and platforms.
- Leverage and test AI tools efficiently to accelerate development of new products and ideas.

Zigbee Wireless Network Engineer

August 2024 - March 2025

The Walt Disney Company via HNM Systems | Lake Buena Vista Florida | Contract

- Analyzed existing ZigBee networks at WDW Resorts and developed an action plan to improve network reliability for all devices below a specified threshold.
- Built custom software and scripts for data ingestion, analysis, and storage primarily used for over time LQI Analysis and for identifying weak spots in the overall network of each resort.
- Oversaw implementation of action plan and coordinated field work for a team of up to 10 technicians.
- Compiled weekly, monthly and quarterly progress reports, network change reports, and projected future resource consumption.
- Provided training and field assistance to improve overall efficiency of the operation.
- Brought the project from behind schedule to ahead of schedule within 2 months and completed on schedule with 150% scope completion without going over budget.

Full Stack Software Engineer

December 2022 to August 2024

Circle Logistics inc. | Orlando FLorida | Full Time

- Developed and maintained databases utilizing Google Cloud, MongoDB, AWS DynamoDB, and AWS RDS, ensuring data integrity and accessibility.
- Designed and implemented AWS Cloud Architecture for both client-facing and in-house web applications, optimizing performance and scalability.
- Created custom REST APIs and GraphQL APIs to facilitate seamless communication between SQL/NoSQL databases, third-party services, and front-end interfaces based on specific business requirements.
- Conducted data normalization and analysis to generate daily reports on key performance indicators across all departments, enabling informed decision-making.
- Developed and maintained internal platforms and tools built with React/Next.js, Node.js, MongoDB, and other javascript libraries and frameworks
- Designed and distributed reports using PowerBI, Microsoft Excel, MongoDB Atlas, and Google Sheets, providing actionable insights to stakeholders.
- Identified trends in internal data to optimize business models and improve operational efficiency.
- Developed and maintained data pipelines to facilitate the smooth transfer of data to and from SQL and document databases, ensuring consistency and reliability.

Lead Software Engineer

June 2023 - December 2023

LocalEyes LLC | Remote | Part Time Contract / Startup

- Manage AWS infrastructure for customer facing applications (Lex, Cognito, S3, DynamoDB ect.)
- Architect new solutions for client projects
- Research and integrate new systems with existing architecture as needed
- Maintain existing code-base and oversee code reviews for quality assurance
- Document and maintain application assets

Instructional Specialist, Full Stack Web Development

September 2022 to December 2024

Trilogy Education | 2U Bootcamps | Part Time / Contract

Remote - Georgia Institute Of Technology

- Assist students and instructor during class activities and projects
- Teach MERN Stack development principles and best practices
- Grade student submissions and provide constructive feedback
- Lead class office hours in constructive conversations geared towards filling in knowledge gaps of students

Systems Analyst

July 2022 - December 2022

Marriott International Inc.

WDW Swan And Dolphin Resort Complex | Lake Buena Vista Florida

- Responsible for administration, maintenance, and troubleshooting of resort networks and information systems, both on-site and remote
- Developed documentation of existing systems and procedures including network infrastructure, operations procedures, and troubleshooting guides
- Specialized in automation of tasks through scripts, macros, and custom local applications including rest api's, powershell scripts, visual basic, and an internally hosted resource website
- Responsible for implementing additive manufacturing (3D Printing) complex wide
- Rebuilt master inventory database to track company assets and technology refresh cycles with MS Access
- Managed deployment of new mobile devices, desktop PC's, and laptops

Software/Machine Firmware Engineer

January 2019 - December 2022

Kiwi Dragon Creations LLC | Winter Garden FL

- Designed, tested, and implemented custom firmware for 3D printers with C++ and Python
- Designed and tested custom 3D printer hardware components with Autodesk Fusion 360
- Managed the company's online presence including company website, Etsy, Facebook, and Instagram.

EDUCATION

AWS Certified Cloud Practitioner

June 2023

University Of Central Florida: Certificate In Full Stack Web Development

Completed July 2022

Penn Foster Career School: Certificate In Professional Locksmithing and Security

Completed August 2018

Other Certificates:

- GraphQL By Example - Mirko Nasato May 2023
- MongoDB The Complete Developers Guide - Acedemind September 2022
- JavaScript, The Complete Guide - Academind September 2022
- Sequelize ORM with NodeJS - Coding Blocks June 2022

FIELD RELATED PROJECTS

IOT-API | Node.js, Express.js, Ubuntu Server, MongoDB | 2025

Summary: A complete ecosystem build from scratch for integration of IOT sensors and devices deployed across the Walt Disney World property. Built on an internally hosted Ubuntu Server virtual machine that hosts a MongoDB instance, Node.js/Express.js API managed through custom configured NGINX. Integrations with Things Network, PowerBI, Splunk, and MongoDB. Built to normalize data and re-map field names from a variety of manufacturers sensors to provide a foundation for a unified data and reporting platform. The API and database currently store over 50 million data points that are regularly accessed and used by several business areas across WDW Parks and Resorts.

LORAT - IoT Rat Trap | C++ | 2026

Summary: LoRat is a 100% custom LoRaWan based Rat Trap state detection system designed to allow remote monitoring of rat traps. The hardware was assembled from off the shelf breakout and dev boards - AdaFruit LoRa Feather, Hall Effect Sensor, and generic battery case. The enclosure is my own original design that was 3D Printed in house, and the firmware is custom built from scratch using C++. It works by embedding a magnet in the upper portion of the trap that is within proximity of the hall effect sensor when armed so that once the trap is triggered the magnet leaves the sensor's proximity, triggering an alert sent via The Things Network over LoRaWan wireless protocol. This project combined my experience with software development, IoT networking, CAD Design, and Additive Manufacturing.

Circle-Connect Enterprise Data Platform | NodeJS, GraphQL, NextJS, AWS | 2023 - 2024

Summary: Circle Connect is being developed to be an enterprise scale platform for launching custom in-house web based applications for everything from project management to KPI tracking and advanced business intelligence analytics and reporting. Built with NextJS and Tailwind on the front end, GraphQL on the backend with an Apollo Server Federated SuperGraph architecture. This application currently connects 14 services and databases including SQL and NoSQL/Document Databases, REST API's, GraphQL API's, and AWS resources. This platform is still in use and actively maintained by Circle Logistics today.

Live URL: <https://connect.circle-analytics.com>

City Populations API | Node.js, AWS | 2023

Summary: The city populations api is an Express.JS based REST API hosted on AWS with the use of ElasticBeanstalk, CodePipeline, and EC2 with MongoDB for the database. This app was developed as an example of how to build an api with high availability, low latency, and high throughput that is not dependent on AWS or a large amount of 3rd party packages allowing it to be hosted virtually anywhere.

Repository: <https://github.com/cobalt88/CPS-API>

FrankenPrinter 3D Printer Firmware | C++, Python | 2020

Summary: Frankenprinter is a one of a kind 3D printer that was an experiment in how far a Creality Ender 3 could be upgraded. Outside of designing and manufacturing most of the non-electrical components myself, this project's open source machine firmware is a customized fork of Marlin 2.0, refactored to suit the needs of the build. The printer itself runs through an OctoPi server loaded onto an integrated Pi4 B+ allowing remote monitoring and control.

Frankenprinter Repository: <https://github.com/cobalt88/Frankenprinter>

Marlin Repository: <https://github.com/MarlinFirmware/Marlin>

TECHNICAL SKILLS

Top Skills: Python, Node, JavaScript, API Development, Data Integrations, Wireless Network Design

Preferred Stack: MERN - MongoDB, Express/Apollo, React/Next.JS, [Node.JS](#), Python

Preferred Version Controller: GitHub, GitBash

Languages: Python, HTML, CSS, JavaScript, Java, Cypher, GraphQL, SQL, MQL, Markdown, C++, Visual Basic

Databases: Neo4j, Neptune, Memgraph, MongoDB, DocumentDB, DynamoDB, MySQL, AWS Aurora, AWS RDS, PostgreSQL, Oracle SQL Server, Microsoft SQL Server

Systems Architecture: MVC, REST, GraphQL, OOP, Microservices

Frameworks/Libraries: React, React Native, Next.js, JQuery, MomentJS, Tailwind, Bootstrap, Bulma, Handlebars, Sequelize, NPM, Amazon Web Services, AG Grid, Express, Apollo, AWS sdk

IDE: Cursor, Visual Studio, Visual Studio Code, Atom, Arduino IDE, IntelliJ, Platform IO