

Kyle Kaniecki

Self-driven, motivated engineering professional with a passion for both infrastructure and software design. With a deep understanding of both the technical and strategic aspects of writing software and building infrastructure, I thrive on solving complex challenges and driving impactful results. I'm motivated by improving the lives of others through software, and I hope to streamline development and produce customer value quickly by writing clean, consistent, and concise code so I can deliver an elegant experience to end users.

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EXPERIENCE

Cytracom— Principal Site Reliability Engineer

June 2024 - Present

Challenged with scaling the platform across 7 regional data centers across the US while maintaining 99+% uptime, I create proprietary solutions for Cytracom as they look to onboard more customers and scale their business. By creating custom operational and scheduling logic to intelligently balance customer workloads, the ControlOne platform continues to deliver for customers from small businesses to large enterprises.

Cytracom— Senior Software Engineer / Team Lead

November 2021 - June 2024

One of the lead developers of Cytracom's ControlOne platform. Designed and spearheaded the initial implementation of the service delivery layer for ControlOne agents, allowing them to tunnel their traffic to Cytracom's cloud edge to be analyzed by the security engine. This platform now supports thousands of simultaneous devices, all streaming data across to the 6 regional data centers across the US.

Spearheaded and architected ControlOne's internal developer platform, affectionately called "sandboxes" internally. Sandboxes allowed developers to self-service production grade environments through a web portal and test their code in a cloud environment before shipping to production. This allowed feature development to receive feedback much earlier in the SDLC and caused dramatic improvements to overall software processes and efficiency.

Designed ControlOne's Observability platform, which reduced our AWS operating costs by over 50%. The new platform allowed for business units to take action on trends and patterns seen across the platform, and debug customer issues quickly and efficiently, resulting in a jump in productivity, feature velocity, and stability across the organization.

PaymentWorks— Software Engineer

January 2021 - November 2021

Full stack engineer for the platform-feature team. Lead the effort on containerizing the development workflow as we moved away from legacy EC2 pets & advised on the python2 to python3 upgrade for various internal platforms.

Smartcar, Mountain View — Software Engineering Intern

May 2019 - August 2019

Member of the backend software engineering team for this a16z startup. Built out Ford compatibility for their production API, as well as fixed bugs with their API rate limiting middleware using Redis and leaky bucket algorithm.

Datto, Rochester — Software Engineering Intern

May 2016 - September 2016, May 2017 - December 2017, May 2018 - December 2018

Member of a newly formed Networking team that developed the inception of Datto's Networking Appliance. Developed the cloud router on top of Openwrt in

SKILLS

Kubernetes

Ansible

Django

Linux Networking

Linux Systems

Terraform

Amazon Web Services

PostgreSQL

Elasticsearch

Clickhouse

Kafka

Redis

React

Angular

LANGUAGES / TOOLS

Python

Rust

HCL

Bash

Typescript / Javascript

HTML / CSS

order to achieve an MSP centric networking solution to limit business downtime for small to medium sized businesses through LTE failover.

PROJECTS

Personal Homelab — *Lead Architect / Chaos Monkey*

Architect, build, and maintain a 12U rack-mount computing cart for lab use. I often use this space to PoC ideas I have, host small websites I own, and provide backup services to my friends and family. This 12U rack has seen many upgrades since its inception in January 2020, but has often been the proving ground for various ideas and upgrades before moving them to production. As of Oct. 22, 2024, the rack houses a 4U compute hypervisor, a 2U storage hypervisor, a 1U switch, and various mini-pcs.

Transitions K&B Internal Website — *Job/Contract Organizer*

Designed and implemented a document / report generation subsystem in order for Transitions employees to generate and share invoices, material orders, and job estimates with customers. Deployed to production Oct 1, 2020, the stack runs on a minimal kubernetes cloud that is continuously maintained and upgraded.

EDUCATION

Rochester Institute of Technology — Software Engineering

August 2015 - June 2020 — Rochester, NY

Software Engineering BS from RIT with a discipline in computing security and criminal justice. Strong knowledge of agile software development & software team process