

Julia Joseph

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EDUCATION

The University of Texas at Austin

May 2024

Major: B.S in Computer Science | Minor: Scientific Computation and Data Science
Completed Coursework: Data Structures, Discrete Math, Multivariable Calculus,
Computer Architecture, Operating Systems

EXPERIENCE

Principal Financial Group - Software Engineer Intern; Des Moines, Iowa

Summer 2023

- Developed low-code infrastructure tool to streamline constructs for cloud infrastructure and design patterns
- Automated hardware maintenance contracts and information retrieval from discovery sources
- Configured service that supports all AWS Services and resources out-of-the-box and eliminates need to update front and back-end
- Skills: Typescript, Docker, Bootstrap, AWS CDK, AWS SDK, ServiceNow

JASET MALL - Technical PM; Austin, TX

Spring 2022

- Configured Cloud Firestone database and implemented admin wireframe to centralize regional center operations
- Technical PM of 20+ members and coached Agile/Scrum, product-market fit and design-thinking
- Increased global e-commerce sales 20% implementing business methodologies
- Skills: React, JS, Firestone

Alkami Technology - Platform Architect Intern; Plano, Texas

Summer 2021

- Designed and developed the UI for Admin widget store web page for clients to browse available microservices
- Created an API layer that enables the webpage to send data to the server
- Implemented server functionality to create, remove, and read existing apps from a database or JSON
- Skills: Vue, SQL Server, C#, TailWind CSS, .NET

PROJECTS

Pintos

Spring 2022

- Expanded a toy OS to include priority scheduling and converted single-thread file system into a multi threaded file system
- Invoked kernel functionality by devising system call handler detailing privileged and prohibited operations
- Skills: C, x86 architecture, Linux

Tuktuk

Spring 2021

- Helped create full-stack mobile app to coordinate ridesharing with UT students
- Updated UI to implement front-end features for PC and mobile devices
- Skills: React, JS, JSON

Game of Life

Spring 2021

- Constructed a simulator that maintains a state of the execution environment simulating the Game of Life
- Composed a console interface for controlling the simulation and querying the state of execution
- Skills: Java, GUI

Huffman Coding

Spring 2021

- Implemented encoding and decoding schema utilizing Huffman algorithm
- Compressed and uncompressed files through menu-option in the GUI front-end
- Derived per-chunk encodings and codes by employing huffman trees

CERTIFICATIONS

- AWS Certified Cloud Practitioner (CLF)
- AWS Certified Developer - Associate (DVA)
- AWS Certified Machine Learning
- AWS Certified Data Analytics

LEADERSHIP/EXTRACURRICULARS

The Digitization of Covid-19

Spring 2022

- Research assistant for Clemson University on thesis about Covid-19 implications on technology and privacy
- Utilized web scraping and data handling to filter papers and developed business logic
- Skills: Python, Mongo DB

Women in Computer Science

Present

- Nell Dale Mentor for 10+ students on tech workshops, resume. and interviews
- Mentored freshman and sophomore CS women bi-weekly meetings

ADDITIONAL INFORMATION

Languages - Proficient in Java, Python, C, JavaScript, HTML and exposure to C++ and TypeScript