Vincent Myint

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EDUCATION

University of California, Berkeley – Berkeley, California December 2024
Bachelor of Arts in Computer Science
Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Probability Theory, Fundamentals of Data Science, Efficient Algorithms, Computer Architecture, Operating Systems (IP), Database Systems (IP)

Relevant Experience

Software Engineer Intern August 2023–Present
Cloud at California | MSK Cancer Research Center
- Deployed MSK's blood and bone marrow cell-tiling web tool to AWS Amplify and integrated backend functions with AWS Lambda to decrease overall image preparation latency by 80%
- Integrated user authentication features with IAM methods to ensure the security and integrity of MSK's web tools
- Migrated MSK research tool to a serverless infrastructure by deploying their containerized application onto Amazon Fargate
- Developed a web application to tile high-resolution images of blood cells and bone marrow and classify individual cells from 23 harmful categories

Software Engineer Intern June 2023–August 2023
Tech For Good Inc.
- Designed RESTful API endpoints to start and terminate AWS EC2 spot instances based on real time machine-learning recommendations
- Created a pipeline for a dynamic bidding mechanism to provision EC2 spot instance purchasing by making customized changes to RequestSpotFleetAPI

CS61A Academic Intern January 2023–June 2023
University of California, Berkeley
- Assisted students at labs and office hours for classes of 1000+ students on homework, labs, and projects
- Prepared course material on recursion, object-oriented programming, interpreters, SQL, and Scheme

Projects

Moodify - MongoDB, ReactJS, Flask July 2023
- Developed a web application that analyzes the lyrical meaning of songs based on AI-based interpretations
- Designed and programmed RESTful APIs to extract the Speech Prosody and Emotional Analysis of song lyrics from HumeAI
- Maintained a database of user information by implementing CRUD (Create, Read, Update, Delete) operations to streamline user authentication and interact with user-searched songs

BearStudy - MongoDB, Express, NodeJS, ReactJS April 2023–March 2023
- Developed a website using MERN stack for Berkeley students to study in virtual lounges representative of Berkeley's campus
- Implemented customizable widget tools like a Pomodoro timer, task list, and sticky notes to increase productivity for students

Pokémon Game - Java February 2023–March 2023
- Created a Pokémon game with pseudo-random world generation using graph-based implementations and leveraged classes to create customized sprite movement and gameplay mechanics including item interactions and battle scenes
- Implemented a feature where an enemy Pokémon chases the player using various single-source path algorithms including Dijkstra's Algorithm

Spam Email Classifier - Pandas, NumPy, Scikit-learn January 2023–April 2023
- Built and trained a logistic regression classifier using Scikit-learn to classify emails as either spam or not spam, achieving a test accuracy of 90%
- Developed a real-time email pipeline and integrated it with a production email system to automate filtering

Skills & Technical Tools

Languages/Frameworks: Python, Java, SQL, C, Java/TypeScript, React, HTML/CSS, Assembly
Tools: Git, AWS, GCP, Docker, Express, MongoDB, Flask, Django, Pandas, NumPy, Matplotlib, Scikit, Firebase