Patrick Lee

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EDUCATION

University of California, Davis Davis, CA
Bachelor of Science in Computer Science June 2024

- Overall GPA: **3.96,** Major GPA: **4.00**, 6 x Dean's Honor List
- Coursework: Object Oriented Programming, Algorithms and Data Structures, Statistics, Computer Networks, Operating Systems, Computer Vision, Human Computer Interaction

TECHNICAL SKILLS

Languages: Python, Golang, C++, C, HTML, CSS, SQL, Bash, Java, JavaScript
Other: Flask, Git, UNIX, AWS, Boto3, ADO, Docker, Kubernetes, CI/CD, Agile Development, MongoDB, React, Django

WORK EXPERIENCE

Mindbody San Luis Obispo, CA
Software Engineer Intern – Developer Productivity June 2023 – Present

- Decreased need for human responses to developer questions by **50%** and launched microservice that outperformed built-in ADO search in **60%** of test cases by creating AI responder using **Python, ADO, AWS,** and **Pulumi IaC**
- Built vector database with FAISS able to store **1,000,000+** embeddings, hosted on a **Flask** webserver in an EKS **Kubernetes** pod using embedding models to perform text similarity search
- Accelerated development by creating **Azure CI/CD pipelines** to automate dev, staging, and prod deployments
- Achieved code reliability through **100%** code coverage in testing with **pytest** and **NewRelic** monitoring and logging
- Spearheaded removal of **200+** outdated implementation switches and LaunchDarkly feature flags and developed an automated flag removal notification system

Coinbase San Francisco, CA
Software Engineer Intern – Infrastructure Security May 2022 – Sept 2022

- Implemented **REST API** and **Lambda** to handle communication channels (e.g. Slack, Jira, Github, etc.) for company of **4000+ employees** with **AWS, Golang,** and **Google Protobuf**
- Reduced stale package security checks by **95%,** increasing vulnerable package detection by writing **Python** scripts for **DynamoDB** partitions
- Documented new tools like Retool pages that support CRUD operations with **GraphQL** to reduce internal page's development time by **90%**, from days to hours

EXTRACURRICULAR INFORMATION

UC Davis Gunrock Breakerspace Davis. CA
Undergraduate Research Assistant Jan 2023 - Present

- Conducted research with Professor Zubair Shafiq and credited on **one** paper on link decoration-based web tracking, user privacy, and computer networking
- Identified trends in user tracking and page breakage caused by link modification with **JavaScript** by collecting **100,000 Puppeteer**-based web crawl results and analyzing with self-developed **Python** scripts

Google Developer Student Club at UC Davis Davis, CA
Techlead Oct 2020 – June 2021

- Instructed on programming fundamentals in topics such as web development and Git usage for **200+ attending students** at several different programming workshops

PERSONAL PROJECTS

Concoct – Python, Flask, JavaScript, React, Microsoft Azure Custom Vision

- Reduced food waste and saved costs by creating app leveraging **Microsoft Azure's Custom Vision** to identify available ingredients and generate relevant recipes
- Took leadership role of project in a team of four and contributed majority of codebase, including entire **Flask** backend API that fetches recipes from the **Spoonacular Recipe API** based on ingredients found by Custom Vision