Daniel Choy

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Education

University of California, Santa Cruz   **Santa Cruz, CA**
B.S. in Computer Science, GPA: 3.76, Dean's Honors List   *Sep 2020 - Sep 2023*
Relevant Coursework:

Artificial Intelligence | Applied Machine Learning | Database Systems | Data Structures & Algorithms | Analysis of Algorithms | Computer Systems Design

Certifications

- **Meta Back-End Developer Professional Certificate** (In Progress)
- **CI/CD with Jenkins using Pipelines and Docker - Udemy Certificate** (May 2024)
- **Generative AI with Large Language Models (LLMs) - AWS & DeepLearning.AI Certificate** (Aug 2024)
- **AWS Certified Developer - Associate** (Nov 2023)
- **AWS Certified Cloud Practitioner** (Sept 2023)

Experience

California Department of Transportation (Caltrans)   **Sacramento, CA**
Full Stack Developer (Contract)   *Dec 2024 - Present*
- EPD (epd.dot.ca.gov) - Developed a platform for contractors/suppliers to submit, search, upload, and review Environmental Product Declarations (EPDs) for construction materials, and to submit quantity and intended use info for Caltrans projects.
- Dime (dime.dot.ca.gov) - Built a web app for material testing labs to submit sample data and test results to Caltrans' database.
- METS API (metsapiadmin.dot.ca.gov) - Developed a secure RESTful API microservice enabling external applications to interface with Caltrans Materials Engineering & Testing Services (METS) databases.

Atlas Technical Consultants   **Sacramento, CA**
Software Engineer 1   *Dec 2024 - Present*
- Developed and maintained RESTful API microservices, built new apps, and implemented new features in existing web apps.
- Performed unit testing using PHPUnit and conducted QA to ensure functionality, security, and performance across devices.
- Designed and implemented relational databases, ensuring data integrity, secure storage, and efficient access patterns.

Nozomi Networks   **San Francisco, CA**
Apps Engineer Intern   *July 2022 - Nov 2022*
- Used ARGOS Labs' Robotic Process Automation (RPA) to create BOTs that automate HR and IT manual processes.
- Assisted with data mapping between Greenhouse Recruiting, Greenhouse Onboarding, and BambooHR to provide developers with the specs needed to define their custom integration flows for the recruit-to-hire business process.
- Deployed a new Security Awareness course in SkillJar, boosting training completions by 25% to meet compliance goals.

Nozomi Networks   **San Francisco, CA**
Software Engineer/IT Ops Intern   *July 2021 - Sep 2021*
- Automated account provisioning/deprovisioning via BetterCloud workflows using JavaScript/API-based custom integrations.
- Helped with the On-boarding and Off-boarding of employees.

Projects

Machine Learning Projects | *Python - Pandas, NumPy, Pytorch, Scikit-learn, Transformers, Evaluate, Matplotlib*
- Telecom Customer Churn Prediction (Logistic Regression | Neural Network w/ 6 Hidden Units | Neural Network w/ 40 Hidden Units)
- Classifying Images into 10 Different Classes (4 Different Convolutional Neural Network Models - Best Accuracy: 70%)
- Yelp Review Sentiment Analysis and Star Rating Prediction (Logistic Regression Model | BERT Pre-Trained Transformer Model)
- Stock Price Prediction (Long Short-Term Memory Recurrent Neural Network)
- Generative AI Dialogue Summarization (FLAN-T5 | PPO | PEFT | Meta AI's RoBERTa-based Hate Speech Model | ROUGE Metrics)

Multi-Threaded HTTP Server | *C Programming*
- Developed an HTTP server that handles client requests (GET, PUT, and a custom APPEND method) and generates responses. Utilized multi-threading for efficient parallel processing and managed connections on a specific port using a socket.

Gym-Essentials Mobile App | *Expo Framework, Node.js, React Native, Firebase*
- Developed an all-in-one gym app with workout and personal record trackers, motivational notifications, and fitness calculators.

Skills

Programming Languages: Python, C, C++, Go, JavaScript, PHP, MySQL, PostgreSQL, HTML, CSS, Java, MIPS Assembly
Frameworks: Django, Vue.js, Expo, React Native, Laravel, Yii, Py4Web
Development Tools: Visual Studio Code, Git, GitHub, AWS Lambda, Postman, Jenkins, Jira, Figma, SonarQube, Virtualbox
Languages: English (Native), Spanish (Fluent)