Daniel Choy

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🌐 https://danielchoy17.github.io/personal-portfolio/ | ⭕ https://github.com/DanielChoy17 | in https://www.linkedin.com/in/daniel-choy-2705501b5/

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 - AWS & DeepLearning.AI Certificate** (June 2024)
- **AWS Certified Developer - Associate** (Nov 2023)
- **AWS Certified Cloud Practitioner** (Sept 2023)

Experience

The Princeton Review's Tutor.com   **Remote**
Python and C++ Tutor (Part-time)   *Oct 2023 - Present*

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.
  o Used JavaScript and HTML to achieve certain operations and unit tested to ensure correct functionality in the BOTs
- 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 Training Course for the company in SkillJar (LMS) to replace the one in Advisera.
  o Resulted in the company's training completion total to increase by 25% in order to reach compliance goals

UCSC Jack Baskin Engineering   **Santa Cruz, CA**
Data Structures and Algorithms Tutor (Contract)   *Mar 2022 - June 2022*

Nozomi Networks   **San Francisco, CA**
Software Engineer/IT Ops Intern   *July 2021 - Sep 2021*
- Developed workflows in BetterCloud to automate the account provisioning/deprovisioning process.
  o Used JavaScript and APIs to create Custom Integrations for my workflows
- Helped with the On-boarding and Off-boarding of employees.

Projects

Machine Learning Projects | *Python - Pandas, NumPy, Pytorch, Scikit-learn, Matplotlib*
- Customer Churn Prediction
  o Logistic Regression - Accuracy: 86% | Neural Network w/ 6 Hidden Units - Accuracy: 87% | Neural Network w/ 40 Hidden Units - Accuracy: 86%
- Classifying Images (4 Different Convolutional Neural Network Models - Best Accuracy: 70%)
- Sentiment Analysis/Classification (Logistic Regression Model - Accuracy: 47% | BERT Pre-Trained Transformer Model - Accuracy: 56%)
- Stock Prediction (Long Short-Term Memory Recurrent Neural Network)

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, Figma, Jira*
- Developed an all-in-one gym app with a personal records tracker, workouts tracker, motivational notification feature to encourage regular gym visits, and calculators for BMI, daily caloric intake, and daily protein intake.

Job-Manager Web App | *Py4Web Framework, Vue.js, Python, JavaScript, HTML, CSS*
- Developed a web application for tracking job applications with dynamic editing, filtering, and company search.
- Integrated analytics like similar job recommendations, average sector salaries, and interview response rate estimates.
- Enabled user comments to share experiences and opinions about companies.

Skills

Programming Languages: Python, C, C++, Go, JavaScript, PostgreSQL, HTML, CSS, Java, Haskell, MIPS Assembly
Development Tools/Skills: Visual Studio Code, Git, GitHub, AWS Lambda, Postman, SonarQube, JFrog Artifactory, Virtualbox, Pytest (Unit Testing), GDB Debugger, Agile Scrum Methodology, Test-Driven Development
Languages: English (Native), Spanish (Fluent)