Daniel Choy
Computer Science (B.S.), Recent Graduate

Personal Website:
https://danielchoy17.github.io/personal-portfolio/
GitHub: https://github.com/DanielChoy17
LinkedIn: https://www.linkedin.com/in/daniel-choy-2705501b5/

32421 Seaside Drive
Union City, CA 94587
(510) 857-6848
danielcchoy17@gmail.com

Education

- University of California, Santa Cruz (2020-2023) GPA: 3.76

Certifications

- Certified AWS Cloud Practitioner (September 2023)
- Certified AWS Developer (November 2023)
- Meta Back-End Developer Professional Certificate (In Progress)

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
- VirtualBox
- GDB Debugger
- Agile Scrum Methodology

Languages

- English (Native)
- Spanish (Fluent)

Classes

- Artificial Intelligence
- Applied Machine Learning
- Database Systems
- Data Structures and Algorithms
- Analysis of Algorithms
- Computer Systems Design

Clubs

- UCSC Artificial Intelligence Club
- Delta Sigma Pi (Professional Business Fraternity)

Experience

The Princeton Review's Tutor.com - *Python and C++ Tutor* (October 2023 - Present)

Nozomi Networks - *Apps Engineer Intern*

July 2022 - November 2022

- Used ARGOS Labs' Robotic Process Automation (RPA) to create BOTs that automate HR and IT manual processes.
  - 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.
  - Resulted in the company's training completion total to increase by 25% in order to reach compliance goals

UCSC Jack Baskin Engineering - *Data Structures and Algorithms Tutor* (March 2022 - June 2022)

Nozomi Networks - *Software Engineer/IT Ops Intern*

July 2021 - September 2021

- Developed workflows in BetterCloud to automate the account provisioning/deprovisioning process.
  - Used JavaScript and APIs to create Custom Integrations for my workflows
- Helped with the On-boarding and Off-boarding of employees.
  - Used Freshservice ticketing system, Dropbox, and JAMF Cloud to help with the on/off-boarding process
  - Provisioned Azure AD/O365 accounts and set up computers for new employees
  - Disabled accounts for terminated employees and reset laptops and/or sent them for repair as needed
  - Ordered equipment needed for new hires when inventory was low and kept inventory updated

Individual Projects

Machine Learning Projects (Python - Pandas, NumPy, Pytorch, Scikit-learn, Matplotlib):

- Customer Churn Prediction
  - 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 to handle client requests and generate responses
- Utilized multi-threading for efficient parallel request processing
- Managed connections on a specific port using a socket
- Implemented support for GET, PUT, and a custom APPEND method

Gym-Essentials Mobile App (Expo Framework, Node.js, React Native, Firebase, Figma)

- 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 response rate estimates
- Enabled user comments to share experiences and opinions about companies

Creating/Manipulating a Database (PostgreSQL + C Programming)

- Developed SQL scripts for database table generation and data loading
- Implemented a C-based front-end with three functions that utilize queries to interact with the database seamlessly
- Integrated a pgsql Stored Function into one of the C functions