

Daniel Choy

UCSC Computer Science (B.S.), Recent Graduate

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Education

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

Achievements

- Graduated in 3 Years with Honors
- Certified AWS Cloud Practitioner (September 2023)
- Certified AWS Developer (November 2023)

Programming Languages

- Python
- C
- C++
- Go
- JavaScript
- PostgreSQL
- HTML/CSS
- Java
- Haskell
- MIPS Assembly

Development Tools/Skills

- Visual Studio Code
- Git/GitHub
- AWS Lambda
- VirtualBox
- GDB Debugger
- Agile Scrum Methodology

Languages

- English (Native)
- Spanish (Fluent)

Classes

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

Clubs

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

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

- Helped students fix the bugs in their programming assignments and understand concepts for their class.

Nozomi Networks - *Software Engineer/IT Ops Intern*

July 2021 - September 2021

- Developed workflows in BetterCloud to automate the account provisioning/de-provisioning 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%
 - Project Link: <https://gitfront.io/r/DanielChoy17/9z8EPn8Pc1Ye/Customer-Churn-Prediction/>
- Classifying Images (4 Different Convolutional Neural Network Models, Best Accuracy: 70%)
 - Project Link: <https://gitfront.io/r/DanielChoy17/ZuYq9yQ1aHkY/Classifying-Images/>
- Sentiment Analysis/Classification (Logistic Regression Model, Accuracy: 47% | BERT Pre-Trained Transformer Model, Accuracy: 56%)
 - Project Link: <https://gitfront.io/r/DanielChoy17/7JDdGnJ9wru6/Sentiment-Classification/>
- Stock Prediction (Long Short-Term Memory Recurrent Neural Network)
 - Project Link: <https://gitfront.io/r/DanielChoy17/gncTPkdXqRT/Stock-Prediction/>

Multi-Threaded HTTP Server (C Programming)

- The server processes incoming HTTP requests from the client, generating responses accordingly. It uses multi-threading for improved efficiency through parallelism when managing requests. It creates, listens, and accepts connections on a specific port using a socket. The GET method retrieves specified file contents, the PUT method inserts message body contents into the specified file, and the APPEND method (made-up HTTP request) adds message body contents to the designated file.
 - Project Link: <https://gitfront.io/r/DanielChoy17/Qw6vXnbjhTck/HTTP-Server/>

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

- An all-in-one gym app with a personal records tracker, workouts tracker, and calculators for BMI, daily caloric intake, and daily protein intake based on user input. Additionally, the app sends motivational notifications to encourage regular gym visits.
 - Project Link: <https://gitfront.io/r/DanielChoy17/xnLPEXS2Zh8b/Gym-Essentials/>

Job-Manager Web App (Py4web Framework, Vue.js, Python, JavaScript, HTML/CSS)

- A web app for tracking job applications with dynamic editing, specific job app views with filters, and a field search for companies. It provides analytics like similar jobs, average sector salaries, and response rate estimates. Additionally, users can share their experiences and opinions about a company through the comment section.
 - Project Link: <https://gitfront.io/r/DanielChoy17/nBxqSNw912PG/Job-Manager/>

Creating/Manipulating a Database (PostgreSQL + C Programming)

- This project contains SQL scripts to generate and load database tables with data. The front-end of the database is implemented in a C file, which incorporates three C functions that utilize queries to enable seamless interaction with the database. Additionally, one of these C functions makes use of a Stored Function written in pgsqL.
 - Project Link: <https://gitfront.io/r/DanielChoy17/7L4F2uzDHjuG/Creating-Manipulating-a-Database/>