

Education

B.S. Computer Science • University of Washington

September 2016 - June 2020 • Seattle, Washington, USA

Cumulative GPA: 3.63 • **Awards:** Dean's List (8 quarters)

Relevant Coursework: Software Design, Data Structures/Algorithms, Linear Algebra, Differential Equations, Discrete Math, Systems Programming, Probability/Statistics, Machine Learning, Computer Architecture, Operating Systems, Computer Security

Extracurriculars: Pi Kappa Alpha Fraternity (Scholarship Chair), ACM (Member)

Experience

Software Development Engineer Intern • Amazon Web Services, Inc.

June 2019 - September 2019 • Seattle, Washington, USA • aws.amazon.com/premiumsupport

AWS Support improves communication with customers about the availability and health of their AWS services.

- Added integration with a new monitoring service into a REST API to increase failure mode coverage
- Designed scalable solution to overcome data size limit, raising the maximum number of concurrent accounts retrieved from monitoring services per operation from 100 to over 10,000
- Wrote unit and integration tests, along with integrated metrics and alarms for operations and monitoring

CSE 331 Teaching Assistant • University of Washington

April 2019 - Present • Seattle, Washington, USA • courses.cs.washington.edu/courses/cse331/

CSE 331 covers Software Design and Implementation, and had enrollment of around 220 students.

- Led discussion sections of 20+ students and taught fundamentals on software development
- Assisted students by hosting office hours and answering questions on course discussion board
- Attended staff meetings and assisted in preparing lecture and discussion section material
- Coordinated with instructor and other staff in preparing and grading student assignments and exams

Growth Engineering Intern • Choco Communications GmbH

July 2018 - September 2018 • Berlin, Germany • choco.com

Choco is a startup with a peer to peer platform for restaurants ordering products from food suppliers.

- Implemented modules using node.js that automate data conversion between different formats, such as localized PDF invoices and SMS notifications for clients, and Slack/analytics for internal usage
- Built an extensible framework for automated chatbots using node.js and the XMPP protocol to help with customer support and onboarding

Projects

Flashcard Study Buddy • Voice-Controlled App for Google Assistant

June 2017 - August 2017 • frankgpoon.com/fsb

Flashcard Study Buddy was a voice-controlled app for Google Assistant that allows users to search for and test themselves verbally on flash cards using the Quizlet REST API, which was shut down in January 2019.

- Integrated user input with Google's natural language processing engine DialogFlow
- Wrote a webhook hosted on Google Firebase, using node.js, to process input and connect to Quizlet
- Integrated OAuth 2.0 authentication protocol for users to use their Quizlet accounts safely and seamlessly.

Skills

Programming Languages: Java, Python, JavaScript, C/C++, bash, HTML, CSS

Technologies/Concepts: REST/SOAP, node.js, React, OAuth, Agile/Scrum

Tools: git, AWS, Google Cloud, DialogFlow, Pytorch