

Frank Poon

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Education

UNIVERSITY OF WASHINGTON

B.S. Computer Science • September 2016 - June 2020 • Seattle, WA, USA

Cumulative GPA: 3.59 • **Awards:** Dean's List (8 quarters)

Experience

AMAZON

Software Development Engineer • August 2020 - Present • Cambridge, MA, USA • amazon.com

- Spearheaded organization-wide privacy mitigation effort, unblocking Alexa AI team by enabling pseudonymized datasets with a differential privacy algorithm
- Designed and implemented a security framework to SQL query critical Alexa AI data, reducing average query times from 90 minutes to 30 seconds
- Audited team deployment processes and led a refactoring effort, increasing CI/CD pipeline reliability from 40 to 90 percent

SDE Intern • June 2019 - September 2019 • Seattle, WA, USA • aws.amazon.com/premiumsupport

- 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

UNIVERSITY OF WASHINGTON

CSE 331 Teaching Assistant • April 2019 - Present • Seattle, WA, USA • cs.uw.edu/331

- 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

CHOCO

Growth Engineering Intern • July 2018 - September 2018 • Berlin, DE • choco.com

- 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 (Google Assistant Voice App) • June 2017 - August 2017 • frankpoon.com/fsb

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

- Connected 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 seamlessly.

Skills

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

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

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