Christine Hsu

(510) 366 - 7110 • christine.hhsu@gmail.com • carisatinie.github.io • linkedin.com/in/christinehhsu

EXPERIENCE

Google | Software Engineering Intern, Ads Overview
MAY 2019 - AUG 2019
+ Added actionability to landing page for Google Ads customers
+ Launched flow to save multiple keywords at a time to target advertisements; reaches 800k customers per day
+ Created new component to modify targeted network types
+ Designed data and mutate models to fetch and save data
+ Implemented with Angular Dart, HTML, and CSS

Google | Engineering Practicum Intern, Google Cloud
MAY 2018 - AUG 2018
+ Built new remote procedure call endpoint in C++ to generate token exchange for service account self-impersonation flow
+ Deployed dark launch of endpoint by comparing generated tokens; 25k QPS expected once fully launched
+ Communicated closely with other teams to smoothly separate and migrate flow from original Java code
+ Wrote extensive design docs

Programming System Lab | Undergraduate Researcher
JAN 2019 - MAY 2019
+ Member of Gail Kaiser's Programming Systems Lab in exploratory Semantic Security bug detection with Pseudo-Oracles project (SESPO)
+ Explore how metamorphic properties can be utilized in a computer security context to expose semantic security bugs

Applied Optoelectronics | Software Development Intern
JUNE 2017 - AUG 2017
+ Built full-stack equipment monitoring program to detect toxic gas leaks; front-end with Javascript and HTML/CSS, back-end with C#, ASP.NET. Reduced wait time by 5 seconds
+ Identified weaknesses in company website and redesigned it using Photoshop, HTML/CSS, Javascript

PROJECTS

"bawk" Programming Language Compiler
+ C and awk-inspired programming text-processing language
+ Wrote scanner, parser, abstract syntax tree, semantic type checking, and code generation to assembly-like LLVM
+ Written in OCaml functional language and LLVM IR

Bespoke | Winner of Capital One Hackathon
+ Customizable wearable credit cards with NFC, 3D printing
+ Built NFC Reader Android mobile and web apps with Nessie API and Flask

Ask Alma | Winner of Columbia Devfest Journalism Prize
+ Facebook Messenger bot to provide students with information about Columbia
+ Python, BeautifulSoup for web scraping, API.ai, Heroku

EDUCATION

Columbia University
B.S. in Computer Science
May 2020, 3.80/4.00 GPA
Latin honors: cum laude

Computing in Context Python TA,
Girls Who Code Executive Board,
Momentum Dance Team,
Application Development Initiative,
Rewriting the Code

SKILLS

Languages & Technologies:
Familiar: Python, Java, C++, HTML/CSS, AngularDart, Javascript, jQuery, Flask
Proficient: C, BeautifulSoup, SQL

Other:
Git, Photoshop, Vim

Relevant Coursework:
Machine Learning,
Natural Language Processing,
Databases,
Computer Vision,
Programming Languages & Translators (Compilers),
Artificial Intelligence,
Analysis of Algorithms,
Advanced Programming in C/C++,
Fundamentals of Computer Systems,
Computer Science Theory,
Intro to Java, Python,
Data Structures & Algorithms,
Discrete Math

AWARDS / HONORS

1st Place – Capital One Hackathon

"Best Use of Journalism" – Columbia Devfest Hackathon

Columbia Dean's List

Girls Who Code Alumni Ambassador