David **Chu**

Seattle, WA

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Education

Harvey Mudd College   *Claremont, CA*

BACHELOR OF SCIENCE, COMPUTER SCIENCE   *2014 - 2018*

Technical Tools

LANGUAGES: Javascript/Typescript, GraphQL, Java, Python, Ruby, R, HTML, CSS/SASS, LaTex
FRAMEWORKS: Node.js, React, Gatsby, Apollo GraphQL, Express, Spring, Ruby on Rails, Flask, Robot Operating System
AWS: Lambda, S3, SQS, SNS, RDS (MySQL), CloudFront, CloudWatch, Rekognition, Comprehend, KMS, Kinesis, CloudSearch, CDK, EC2
OTHER: Cypress, Jest, Testing-Library, JUnit, Cucumber, Selenium, Mocha, Jasmine, jQuery, D3, MySQL, ActiveRecord, SciPy, OpenCV

Experience

Software Development Engineer   *Seattle, WA*

AMAZON   *Dec. 2018 - Jun. 2020*

- Developed and maintained IMDb's image and content acquisition systems and full-stack features, afterwards the core API
- Migrated these systems from legacy Perl & monolith Java to service-oriented Java & serverless AWS (Node.js, GraphQL), respectively
- Built internal web applications including image management tooling (Spring & React) and core API explorer (Express & React)

Clinic Team Researcher   *Claremont, CA*

NASA AMES RESEARCH CENTER   *Aug. 2017 - Jun. 2018*

- Worked in a team of five to improve upon scheduling and execution in multi-robot systems with limited communication
- Designed, implemented, and tested three algorithms that reduce rescheduling when compared to existing algorithms from literature
- Submitted and presented a paper at IntEx ICAPS 2018: `https://www.cs.hmc.edu/HEAT/papers/Chu_et_al_INTEX_2018.pdf`

Tutor and Grader   *Claremont, CA*

HARVEY MUDD COLLEGE   *Sep. 2015 - Dec. 2017*

- Tutored students and graded assignments for "Probability II" (1 semester), "Programming Languages" (1 semester), "Computer Systems" (1 semester), "Data Structures & Program Development" (2 semesters), and "Introduction to Computer Science" (1 semester)

Software Engineer Intern   *Bellevue, WA*

PURE STORAGE   *May 2017 - Aug. 2017*

- Developed Map View, a spatial data visualization tool on Pure1's dashboard, using TypeScript, Angular, D3, & Google Maps API

Software Engineer Intern   *Panama City, Panama*

UBIQUA   *Jun. 2016 - Aug. 2016*

- Built Ubiqua POC, a Ruby on Rails service that processes supermarket purchase orders, and integrated with the first client
- Identified product code inconsistencies in product distributors' databases using Active Record
- Prototyped a Rails, Backbone, & CoffeeScript application for distributor warehousemen and invoicers to process refunds

Student Researcher   *Claremont, CA*

HARVEY MUDD COLLEGE   *Jun. 2015 - Dec. 2015*

- Worked in a team of four to create Loqus, a Python Flask application that allows users to share files conveniently with people nearby
- Designed the UI, implemented the front-end using Bootstrap, and integrated Google Maps API
- Pitched at two HMCEN conferences, gave a CS Department talk, and delivered a guest speech for HMC's entrepreneurship class