

# David Chu

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## Education

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### Harvey Mudd College

BACHELOR OF SCIENCE, COMPUTER SCIENCE

Claremont, CA

Sep. 2014 - Exp. May 2018

### Relevant Coursework

**COMPUTER SCIENCE:** Artificial Intelligence, Algorithms, Programming Languages, Computer Systems, Computability & Logic, Robotics

**MATHEMATICS:** Stochastic Processes, Spatial Statistics, Discrete Math, Linear Algebra (I-III), Differential Equations (I-III), Probability (I, II)

**ENGINEERING:** Autonomous Robot Navigation, Management of Technical Enterprise, Engineering Systems

**ECONOMICS:** Financial Markets & Modeling, Econometrics, Financial Economics

## Technical Tools

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Ruby, Python, C, C++, Java, JavaScript, TypeScript, CoffeeScript, HTML, CSS, R, Haskell, Racket, Prolog, Rails, Flask, Angular, Ionic, Backbone, Jasmine, MongoDB, ActiveRecord, SQLite, Heroku, D3, SciPy, Robot Operating System, OpenCV, SMACH, LaTeX

## Experience

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### Clinic Team Engineer

NASA AMES RESEARCH CENTER

Claremont, CA

Aug. 2017 - Present

- Currently working in a team of five to improve upon scheduling and execution in multi-robot systems with limited communication
- Designed three algorithms that reduce rescheduling when compared to existing algorithms from literature
- Implemented a framework for running experiments with simulated robots, using Python, ROS, Gazebo, and SMACH

### Software Engineer Intern

PURE STORAGE

Bellevue, WA

May 2017 - Aug. 2017

- Worked in a team of two to build a data visualization tool on Pure1 Manage's dashboard, using TypeScript, AngularJS, and D3

### Software Engineering Intern

UBIQUA

Panama City, Panama

Jun. 2016 - Aug. 2016

- Worked in a team of two to develop Ubiqua POC, a Ruby on Rails service that processes supermarket purchase orders
- Identified product code inconsistencies in product distributors' databases using Active Record
- Prototyped a Rails/Backbone application for distributor warehousemen and invoicers to process refunds

### Student Researcher

HARVEY MUDD COLLEGE

Claremont, CA

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

## Campus Activities

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### Tutor and Grader

HARVEY MUDD COLLEGE

Claremont, CA

Sep. 2015 - Present

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

### Staff Photographer

THE STUDENT LIFE NEWSPAPER, THE CLAREMONT COLLEGES

Claremont, CA

Sep. 2014 - May 2015

- Shot photographs of relevant events of the Claremont Colleges on a weekly basis