

KATIE CHU

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School address: 69 Brown Street, Mail #8222, Providence RI 02912, Permanent address: 20 Longview Court, Hillsborough, CA 94010

EDUCATION

BROWN UNIVERSITY: Providence, RI • 2015-present

Sc.B Applied Math and Computer Science • GPA 4.0

CRYSTAL SPRINGS UPLANDS SCHOOL: Hillsborough, CA • 2011-2015

Cumulative GPA: 4.25 • Cum Laude • 2360 SAT

SELECTED COLLEGE COURSES:

Computer Systems, Algorithms & Data Structures, Discrete Structures & Probability,
Object-Oriented Programming, Computational Biology, Deep Learning, Statistical Inference

WORK EXPERIENCE

BROWN UNIVERSITY CS DEPT: HEAD TEACHING ASSISTANT (Summer 2017 - Current)

Head TA for CS181 (Computational Biology). Responsibilities include holding hours, help with designing syllabus and lecture material, overseeing undergrad TAs.

NERDWALLET: SOFTWARE ENGINEER INTERN (Summer 2017, SF)

Back end engineer on Product Platform team. Worked on projects related to integrating third party services, such as Billshark. (Flask, SQLAlchemy)

BROWN UNIVERSITY IT SERVICE CENTER: TECHNICAL CONSULTANT (2016 - 2017)

Worked with students and faculty to troubleshoot software/hardware issues.

SOFI: SOFTWARE ENGINEER INTERN (Summer 2016, SF)

Front end & full stack programming projects on Wealth Management team. Completed serviceable work for Wealth Advisor web app. (Java, MySQL, AngularJS, HTML, CSS)

BROWN UNIVERSITY CS DEPT: TEACHING ASSISTANT (Fall 2016, Spring 2017)

TA for CS15 (Object-Oriented Programming) and CS16 (Algorithms and Data Structures). Held hours, labs and section every week, along with work designing coursework and lectures (~20 hours/week).

PROJECTS, RESEARCH & SKILLS

PHRASEBOOK (HACK@BROWN)

Designed a web app using Flask, HTML and Python. Runs a sentiment analysis on inputted text and media to find the best book and music suggestions corresponding to user's current emotion.

CARECONNECT (URI HACK-HEALTH)

Won \$1000 as a second-place finisher. Developed, designed and pitched an IOS app designed to connect caretakers to families. Implemented with Swift and Firebase, prototyped with Sketch and InVision.

SHELL Implemented a unix shell in C.

MALLOC Wrote a dynamic storage allocator for C programs; implemented malloc, realloc and free.

DATABASE Created a server to manage a multithreaded database in C capable of supporting multiple clients using TCP/IP networking.

SKILLS Particularly experienced in Python, Java, C, Javascript, SQL and HTML/CSS; extremely comfortable with object-oriented programming and algorithms.

ACTIVITIES & INTERESTS

CLUB RUNNING: Brown University Club Running Team

SF HALF-MARATHON: 3rd place finisher in W19 division

PVD HALF-MARATHON: 3rd place finisher in W20 division

BROWN DATA SCIENCE: Design lead and member of task committee

WICS MENTEE: Women in Computer Science mentee

ATHLETE OF THE YEAR: MVP Varsity Cross Country • Crystal Springs

PENINSULA BRIDGE: Created & taught a 5-week science class for underprivileged middle school students in the SF Bay Area