

Bell Wu

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CORE COMPETENCIES

- Strong debugger, quick learner; comfortable using various data structures, implementing complex sorting algorithms, memory management and cache-friendly code, and working with artificial intelligence models
- C, Java, Python, Go, HTML/CSS, JavaScript, SolidWorks, Git, MySQL, Adobe Suite
- Fluent in English and Mandarin; I love reading, music, ultimate frisbee, and photography!

EDUCATION

University of California, Berkeley, College of Letters and Sciences August 2017 – May 2021 (expected)

- B.A. in **Computer Science**; Minor in Linguistics; Certificate in Design Innovation; GPA: 3.80/4.00
- Upsilon Pi Epsilon Computer Science Honors Society member; top one-third of computer science students
- Technical Coursework: Data Structures, Machine Structures, UI Design and Development, Efficient Algorithms, Artificial Intelligence, Circuit Design, Discrete Math and Probability Theory

COURSE PROJECTS

Prototyping Interface for Game Designers (MAPI), HTML/CSS, Vue.js, GitHub Pages, Adobe Illustrator

- Created an innovative prototyping web application; coordinated with group through multiple design cycles
- Responsible for project design language; conducted user interviews and created paper and digital prototypes

Compiler Project, C, Visual Studio Code

- Built lexer, parser, and code generator that translates high-level code into assembly language

Algorithms Project, Python

- Solved a NP-hard optimization problem using integer linear programming and a greedy algorithm

Voice-Controlled Car, Java, TI Launchpad

- Built a band pass filter and microphone board to receive audio input; used PCA to classify voice commands
- Implemented a closed-loop control system to make the car go forward and turn

BearMaps, Java, IntelliJ

- Implemented A* search algorithm in a mapping application similar to Google Maps

WORK AND INTERNSHIP EXPERIENCE

Instructor, Mathnasium

June 2017 – July 2019 (summers)

- Taught middle and high school students math, ranging from pre-algebra to introductory calculus; worked with them using worksheets and textbooks, leading them through examples and quizzing them

Service Champion, Taco Bell

June 2017 – July 2017

- Developed communication skills, attentiveness, and other customer service skills as cashier

Software Intern, UCLA Radiology Lab

June 2016 – July 2016

- Full-stack development on a web application for doctors, built user login and various text editing features using Play Framework and MySQL

EXTRACURRICULARS

Upsilon Pi Epsilon, Computer Science Honors Society, UC Berkeley

January 2019 – Present

- **Publicity Officer**: Manage club website, social media, graphics, and newsletter

EECS Academic Intern, UC Berkeley

June 2019 – Present

- Teach and assist students with lab assignments for CS61C (Machine Structures) class

CyberPatriot, High School

2015 – 2017

- **Linux Specialist**: Secured Ubuntu systems by finding operating system vulnerabilities