Bell Wu

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CORE COMPETENCIES

- Comfortable using various data structures and graphs, and implementing complex sorting algorithms
- Fluent in Java and Python; Previous projects include tile-based movement game, version of Google Maps, and Scheme Interpreter; Experience in C, BootStrap, SolidWorks, Git, MySQL, virtual machines
- Proficient in Adobe Creative Cloud Apps: Illustrator, Premiere Pro, Photoshop, Lightroom
- Fluent in English and Mandarin; I love cooking, reading, piano, ultimate frisbee, and photography!

EDUCATION

University of California, **Berkeley**, **College of Letters and Sciences** August 2017 – Present

- B.A. in Computer Science (expected May 2021); GPA: 3.83/4.00
- Technical Coursework: Data Structures, Machine Structures, Circuit Design, Discrete Math and Probability Theory, Efficient Algorithms, Artificial Intelligence

WORK AND INTERNSHIP EXPERIENCE

Instructor at **Mathnasium**, Fremont, CA June 2017 – July 2017; May 2018 – June 2018

- 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 at **Taco Bell**, Fremont, CA June 2017 – July 2017

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

UCLA Radiology Lab, Department of Health, UCLA June 2016 – July 2016

- **Software Intern**: Full-stack development on a web application that handles doctor reports and patient information through analysis by natural language processing using Play Framework, MySQL, and GATE (for text engineering)

PROJECTS

Lexer and Parser Project, C

- Built the lexer and parser portion of a compiler for a simplified version of C

Algorithms Project, Python, Gurobi Optimizer

- Used integer linear programming and a greedy algorithm to solve a NP-hard optimization problem

Voice-Controlled Car

- 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

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

EXTRACURRICULARS

Christians on Campus, UC Berkeley August 2017 – Present

- **Social Media Chair** and **Photographer**: Coordinate and promote events on club website, Facebook, Instagram; take and compile photos and videos; edit videos for Bible studies and other events; coordinate with and lead groups of 10-12 in Bible studies

CyberPatriot, High School 2015 – 2017

- **Linux Specialist**: Secured Ubuntu systems by finding operating system vulnerabilities
- Competed in the National Youth Cyber Defense Competition organized by the Air Force

Tabletop: The Board Game Club, High School 2016 – 2017

- **President:** Founded and fostered a community for students to play board games and discuss strategies