MIHIRA PATEL

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EDUCATION

University of California, Berkeley *August 2018 - May 2022*
B.A. Data Science with Cognition Emphasis & Minor in Computer Science *Berkeley, CA*

Relevant Coursework *Data Structures — Algorithms — Data Science — Cognitive Science — Human-Centered Design*
Discrete Math & Probability Theory — Linear Algebra — Machine Structures — Artificial Intelligence — Probability for Data Science

Activities Computer Science Mentors, Cal Hacks, Association of Women in EECS, Society of Women Engineers

SKILLS

Languages Java, Python, JavaScript, HTML, CSS/Sass, SQL, TypeScript
Libraries/Tools Git, React, NumPy, Jupyter, Pandas, Maven, JUnit
Design Figma, Sketch, Adobe Illustrator, Adobe Photoshop, User Research, Usability Testing

EXPERIENCE

Google, Inc. *Traffic Steering Team* | Software Engineering STEP Intern Remote Internship | May 2020 - Aug. 2020

· Developed a full stack web-based personal assistant application using **Java** backend & **JavaScript, HTML, CSS** frontend
· Trained conversational AI inputs with Dialogflow and programmed backend response and frontend display that supports voice & text recognition and output, & 10+ standard Google Assistant features
· Implemented unique assistant feature to help users find, plan, & track workouts using YouTube Data & Google Fit APIs
· Completed entire development process: writing design docs, implementing, code reviews/testing, user testing, & internal launch

IAC Applications *Platform Services Team* | Software Engineering Intern New York, NY | June 2019 - Aug. 2019

· Built internal website testing & experimentation application to keep track of product performance & new product features
· Application frontend built using **TypeScript** with **React.js** and styled with Sass
· Conducted user research to identify opportunities to increase A/B testing usability & efficiency for 200+ products & features
· Implemented A/B testing dashboard which increased test creation, tracking, & analysis speed by 80%

SheEO | Co-founder San Francisco, CA | May 2015 – Current

· Lead workshop series to inform 250+ elementary to high school girls about computer science & entrepreneurship fields
· Created fellowship for high school girls to encourage them to educate their communities about STEM fields
· Providing mentorship and opportunities to connect fellowship recipients with women in tech industry & CS college students
· Won 1st place (1/160) internationally for efforts to close gender gap in technology and entrepreneurship

PROJECTS

Minimum Pairwise Distance | Python, Greedy Algorithms, NetworkX May 2020

· Created approximation algorithm for NP-hard problem: determine dominating set of network with average minimum pairwise distance
· Algorithm was modified verison of Prim's with postprocessing to ensure result was close to optimum

Politigo | React.js, Sass, Figma July 2019

· Developed web application platform to help users learn more about politicians, causes, & bills, equipping users to take action
· Led the frontend team in designing prototypes & building components in React to connect to backend from ProPublica API
· Completed development process: ideation, wireframing and creating mockups, implementation, code reviews, & launch

Build Your Own World | Java, JavaScript May 2019

· Developed interactive game allowing users to move avatars through game world & collect points to win
· Created algorithm to randomly generate world depending on user-entered level and access key
· Implemented saving & loading feature to let users save their game status & revisit game later

BearMaps | Java, Search Algorithms April 2019

· Developed backend of web mapping application allowing users to navigate through the City of Berkeley
· Implemented a search system for users to find places of interest and an autocomplete system for efficiency
· Created a shortest route finder feature using A* and implemented turn-by-turn navigation to giver user directions

ACTIVITIES & LEADERSHIP

UC Berkeley EECS Department | Computer Science Tutor Berkeley, CA | Jan. 2019 – Current

· Lead group tutoring sections 2 times/week for 12 students to reinforce course material for CS 61A (**Python**) and CS 61B (**Java**)
· Meet with students one-on-one for personalized tutoring in topics such as recursion, OOP, data structures, & SQL
· Prepare students for exams with extra review sessions and practice problems & guide students on homework/projects
· Co-lead a group of 6 junior tutors by refreshing course material, doing teaching demos, & giving feedback

Society of Women Engineers | SWE++ Committee Officer Berkeley, CA | Jan. 2019 - Current

· Host 28 middle school girls on campus for weekly coding classes and engineering workshops & develop workshop curriculum
· Helped expand SWE++ to two new campuses: San Jose State University and Santa Clara University enabling us to 3X our impact
· Developed website with information about classes, registration, campus chapters, & Code Day to increase online presence

AWARDS & HONORS

Rewriting the Code Fellowship (June 2018-Present), Girls Who Code Aspiring Technologists Scholar (July 2019),
UC Berkeley Grace Hopper Celebration Scholarship (July 2019), DECA 1st Place Entrepreneurship International Champion (Apr. 2018),
NCWIT Award for Aspirations in Computing (Feb. 2017, 2018), Girl Scouts Gold Award (Nov. 2017)