Noor Mahini

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EDUCATION

University of California, Berkeley — Berkeley, CA
Bachelor of Science, Electrical Engineering and Computer Science; GPA: 3.9/4.0 — *August 2019 – May 2023*
- Courses: Data Structures, Algorithms, Machine Structures, Discrete Mathematics and Probability Theory, Artificial Intelligence, Operating Systems, Principles and Techniques of Data Science, Databases

EXPERIENCE

ChargePoint — August 2022 – Present
Software Engineering Intern — *Campbell, CA*
- Redesigning energy metric collection system to improve horizontal scalability by integrating stateless components
- Migrating backend time-series solution from Prometheus to **Uber M3** and **AWS Elastic Load Balancing**

Amazon Web Services (AWS) — May 2022 – August 2022
Software Development Engineer Intern — *Seattle, WA*
- Streamlined game engine customization by allowing **500+ developers** to view and modify hierarchical settings
- Implemented an Editor GUI using a **Qt TreeModel** component to render DOM nodes from in-memory data
- Integrated notification handlers to populate file origins during **JSON patch** and **JSON merge patch** operations
- Reduced memory usage by **75%** by incorporating a **DOM Prefix Tree** and truncating redundant data
- Wrote **GoogleTest** unit tests to ensure the reliability, maintainability, and scalability of the program

Computer Science Mentors (CSM) — May 2021 – present
Tech Chair/Product Manager — *Berkeley, CA*
- Developed a resource aggregation tool using **React.js** and **Django REST** for coordinators to upload files to **S3**
- Automated enrollment with a **max-flow bipartite matching** algorithm to save mentors **42hrs/semester**
- Spearheaded expansion initiatives by leading **20 engineers** to learn CSM's code and take ownership of projects
- Communicated with Berkeley professors to consolidate ed-tech efforts across CS courses into one platform
- Engineered API's and UI tools for a web application enabling **2500+ students** to interact and manage sections

Amazon — May 2021 – August 2021
Software Development Engineer Intern — *Bellevue, WA*
- Enabled **100+ engineers** to view and modify Amazon Ion shipment entities utilizing **React.js** assets in **S3**
- Constructed a serverless architecture using **API Gateway** to trigger **AWS Lambda functions**
- Reduced average entity payload access time by **80%** through implementing a local cache in the frontend
- Accelerated shipping entity operational management by **90%** by consolidating all entities into a single interface

Amazon — May 2020 – August 2020
Software Development Engineer Intern — *Remote*
- Upgraded an internal bookmarking system to empower **1000+ associates** to access case handling tools securely
- Incorporated **Ajax** to connect backend business logic to a **Vue.js** frontend that renders hierarchical content
- Modified a **Spring Boot** backend service to access and update user bookmark data stored in **DynamoDB**
- Decreased request latency by **40%** by restructuring project architecture, increasing case handling efficiency

PROJECTS

Kredible | *React.js, Node.js, Firebase, Twilio* — October 2021
- Empowered children to learn financial literacy through interactive simulations created in **React.js**
- Added user authentication with **Firebase** and send messages via a **Node.js** server integrated with **Twilio**

TECHNICAL SKILLS

Languages: (proficient) Python, Java, JavaScript, C++, SQL, TypeScript (familiar) C, C#
Frameworks: (proficient) React.js, Node.js, Django, Pandas (familiar) Vue.js, Spring Boot
Software and Tools: (proficient) AWS, PostgreSQL, Redux, Git (familiar) Firebase, NumPy, Scikit-Learn, MongoDB

AWARDS AND HONORS

- Tau Beta Pi (TBP) Engineering Honors Society — September 2022
- Eta Kappa Nu (HKN) EECS Honor Society — February 2022
- **2nd place** winner in the Amazon Future Engineer Alexa Skills Hackathon — July 2020