Borna Niknahad

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EDUCATION

University of California, Davis — Davis, CA
B.S. in Computer Science and Engineering — *Expected Graduation Spring 2025*

EXPERIENCE

Circle — Remote
Contract Software Engineer — *Jan 2025 - Present*
- Building an AI-powered Image-to-3D and Image-to-Video system with metered billing using USDC and Circle APIs

ASUCD Innovation and Research Lab — Davis, CA
Lead Software Developer — *Oct 2024 - Present*
- Lead and manage **ucdhacknight.com**, where I guide **50+** students in building technically complex personal projects

Vimbly Group — Manhattan, NY
Senior Software Engineer Intern — *May 2024 - Aug 2024*
- Engineered core full-stack features and mobile app screens for *Mobile Text Alerts*, a prominent SMS marketing platform that sends **100M+** messages across **20,000+** businesses with over eight figures in annual revenue
- Built and deployed a scalable Email & SMS verification system for the mobile app in **React Native** and **TypeScript**, reducing account fraud by **22%** and driving the app's trial-to-paid account conversion rate by **8%**
- Elevated backend performance by restructuring key data-handling workflows in **Node.js** and **React** alongside optimizing **MySQL** queries, achieving significant reductions in render time and CPU usage
- Documented and resolved all **Android** and **iOS** related issues, collaborating closely with cross-functional teams to deliver a high-quality, error-free application

BillionMinds — Remote
Software Engineer Intern — *Sep 2023 - Dec 2023*
- Built two comprehensive web dashboards for *BillionMinds* to showcase real-time adaptibility and resilience metrics using **Next.js**, **MongoDB**, and **Express** for optimized performance and data management
- Led the development and refinement of multiple **Next.js** prototypes into a cohesive production-ready product, nearly cutting the development cycle in **half** through efficient project management and iterative feedback with the client
- Implemented data aggregation with **AWS Lambda** serverless functions, reducing data processing latency by **40%** and enhancing dashboard responsiveness

Vimbly Group — Manhattan, NY
Software Engineer Intern — *May 2023 - Aug 2023*
- Developed key mobile app features and screens for *Mobile Text Alerts* such as multi-factor authentication and the Settings Screen in **React Native** and **Typescript** to deliver a reliable and responsive application, leading to an increase of +**5,000** weekly visitors
- Redesigned and optimized the admin platform's infrastructure and frontend with **React** and **Node.js**, resulting in nearly a **33%** reduction in complaint resolution times and a significant boost in customer support efficiency

PROJECTS

Minesweeper DDQN | *Machine Learning*
- Developed and trained a scalable **Double Deep Q-Network (DDQN)** AI agent to play **Minesweeper** at expert difficulty, achieving a **28%** win rate over 25,000 games
- Designed a custom Minesweeper environment in **Python** following **OpenAI Gym** conventions, enabling reinforcement learning with prioritized experience replay **(PER)**

Training Tool | *Java*
- Built an online learning platform for Davis' largest software and design agency using **Java** and **Typescript**, vastly enhancing the platform's scalability and performance for over **200+** active users
- Designed and optimized comprehensive relational database schemas in **PostgreSQL**, improving query efficiency and data retrieval process by **60%**

TECHNICAL SKILLS

Languages	Java, Typescript, Javascript, C/C++, Python, Go, Swift, HTML/CSS, SQL, R, Kotlin, x86 Assembly
Frameworks	React.js, Next.js, React Native, Node.js, Redux, Spring Boot, SwiftUI, Express.js, Mongoose, PyTorch
Technologies	PostgreSQL, XCode, Android Studio, MongoDB, Vercel, MySQL, Git, AWS, Postman, Docker, Linux