Nicholas Deupree (914) 419-4671 • nicholasdeupree@gmail.com • Linkedin • Portfolio

Summary: CS graduate with experience in full-stack development, scalable systems, and AI-driven apps, eager to build impactful software at scale.

Education

University of California: Santa Cruz, Baskin School of Engineering
Bachelor of Science in Computer Science | **GPA: 3.7/4.0** | **June 2025**

Experience

Lead Mobile Engineer | Wake Digital | Remote   **Jun 2025 – Present**
- Engineered a custom Swift-to-TypeScript bridge to implement Apple's AlarmKit, filling a critical gap in the Expo ecosystem where no existing library supported the new framework.
- Secured App Store approval by resolving strict data privacy requirements, implementing clear user permission flows to validate the necessity of sensitive background data access.
- Architected an event-driven Firebase backend using Cloud Functions to process social interactions, optimizing Firestore schemas to decouple read costs from user volume growth.
- Established the team's CI/CD pipeline and code review standards, converting a chaotic prototype workflow into a stable production release cycle.

Software Engineer Intern | Nurbli | Remote   **January 2025 – June 2025**
- Engineered the navigation state machine to handle cyclical playback and boundary detection, ensuring seamless transitions for linear and repeat-listening experiences.
- Implemented audio interruption handlers to gracefully manage application focus, ensuring proper UI state synchronization when external apps seize audio resources.
- Managed the full sprint lifecycle for the engineering team on Asana, driving sprint planning, backlog grooming, and retrospectives to ensure on-time delivery.

IT / Network Engineer Intern | Camping & Education Foundation | I-Falls, MN   **April - November 2024**
- Managed network availability for 50+ onsite users, diagnosing hardware/software issues, and overseeing a 20x bandwidth upgrade (50 Mbps to 1Gbps) to support remote operations.

Projects

Expo-alarm-kit | Open Source NPM Package   **November – January 2026**
- Published an open-source Apple AlarmKit bridge to NPM, supporting App Group sync and native event payloads, enabling system-level alarm scheduling for the React Native iOS community.

Audio Noise Suppression | Python ML & Next.js Web App   **April 2025**
- Developed audio file noise suppression using TensorFlow with a Next.js frontend and FastAPI backend.
- Enabled speech enhancement pipeline, reducing background noise in uploaded files for clearer output.

Datum | Next.js Knowledge Base   **September – December 2024**
- Co-developed the file management interface in Next.js, implementing file uploads and real-time state updates to ensure a responsive user experience.
- Designed the Firebase database schema for a RAG-powered knowledge base, structuring collections to efficiently store document embeddings alongside scalable user permissions and file metadata.
- Operated within a high-velocity 6-person scrum team, participating in daily standups, code reviews, and pair programming sessions to maintain code quality across the full stack.

Technical Skills

Languages: JavaScript, TypeScript, Python, HTML, CSS, SQL databases (PostgreSQL, SQLite), Dart, Swift, C, Java
Frameworks & Tools: React.js, Next.js, Flutter, Node.js, Google Cloud, FastAPI, React Native, REST APIs, Git, Linux
Practices: Agile/Scrum, TDD, Debugging, Responsive Design, Prompt Engineering, CI/CD, System Design
Relevant Coursework: Database Systems, Web Applications, Principles of Computer Systems Design, Machine Learning, Natural Language Processing, Artificial Intelligence