

# Daniel Mandelli

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Bachelor of Science in Computer Engineering • University of Rhode Island • Nelson C. White Award recipient (Class Rank 2)

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## TECHNICAL SKILLS

**Programming Languages:** JavaScript, TypeScript, Python, PHP, SQL, Solidity, C++, C, C#, Java, MATLAB, VBA, Ada, VHDL

**Web Frameworks:** React, React Native, Next.js, Node.js, Express.js, Bootstrap 5, .NET, Qt, jQuery, WordPress, Directus

**Web3 / Blockchain:** Web3.js, Ethers.js, Viem, Wagmi, AppKit, EIP-1193 Providers, Blockchain Development

**Databases & APIs:** PostgreSQL, REST APIs, SQLite

**Cloud & Infrastructure:** AWS S3, AWS Elastic Beanstalk, Docker, Firebase, Nginx, Apache

**Developer Tools:** Git, GitHub, GitLab, Bash, Gulp, GDB, VS Code, OpenAI API

**Platforms / Operating Systems:** Linux, Ubuntu, macOS, Windows, Android, iOS, ChromeOS

**Hardware / Embedded:** Raspberry Pi, Arduino Microcontrollers, Altera FPGA, Electronics Testing Equipment

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## TECHNICAL EXPERIENCE

**Decentralized Innovations**, Lead Software Engineer

March 2024 - Present

- **Led frontend development of a cross-platform crypto wallet**, building and shipping features across a React Chrome Extension and React Native iOS/Android app used by real customers in production.
- **Drove multi-chain wallet expansion** by architecting Bitcoin (UTXO) support alongside existing EVM chains, directly growing the platform's addressable user base and unlocking a new asset class for customers within a single, unified wallet experience.
- **Accelerated revenue-generating integrations** by building cross-chain swap and fiat on-ramp capabilities (ChangeNow & Guardarian APIs) into React and React Native apps, enabling seamless crypto-to-fiat conversions, giving users the ability to swap crypto and convert to fiat without ever leaving the app.
- **Built a MetaMask-compatible EIP-1193 Injected Provider** so the wallet could connect to existing dApps through both the Chrome Extension and the in-app React Native browser, opening up the broader Web3 ecosystem to wallet users.
- **Owned mobile release management for iOS and Android**, coordinating deployment workflows and sprint cycles to keep production stable and releases on schedule.
- **Improved app performance and responsiveness** by implementing performance optimizations, UI improvements, and proactive debugging across chrome extension (React), mobile (React Native), and backend systems, reducing latency and increasing UI responsiveness.
- **Maintained backend services built in TypeScript, Node.js and Express**, contributing to API development and PostgreSQL data layer as needed to support frontend feature work.
- **Supported infrastructure reliability** by deploying and managing web applications and backend services on AWS S3 and Elastic Beanstalk, enabling scalable, cost-effective hosting as the platform scaled.

**Webwise Technology**, Founder / Web Developer

January 2023 - Present

- **Founded and grew a web development business from the ground up**, securing and retaining a client base by delivering end-to-end web solutions. Taking on projects from initial client conversation through design, development, deployment and ongoing support.
- **Built performant, visually polished websites for clients** using React, Next.js, WordPress and PHP, with a focus on clean UX, fast load times and mobile responsiveness.
- **Reduced operational overhead for clients** by containerizing services with Docker and automating deployment pipelines via Bash scripting, cutting manual effort and improving release reliability.
- **Designed and developed RESTful APIs with Node.js and Express.js** to connect frontend experiences to backend data, keeping the architecture clean and maintainable.
- **Maintained a 100% uptime commitment** by providing end-to-end hosting, proactive troubleshooting, and bug resolution, building trust and long-term client retention.

- **Built out VectorCAST/Coupling from the ground up** using Python and C++, turning a legacy tool into a more capable and stable product that enterprise engineering teams could rely on.
  - **Redesigned the VectorCAST frontend interface using Qt 4/5**, making it more intuitive and easier to navigate for engineers who used the tool every day.
  - **Built HTML, CSS and JavaScript reporting dashboards** that gave teams clear, visual insight into software quality data that was previously buried in raw output.
  - **Cut bug rates through rigorous unit and system testing in Python**, building out test coverage that caught issues earlier and reduced customer-facing problems.
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## PERSONAL PROJECTS

### Meal Match App Development

- **Built a React Native app for iOS and Android** that combines Google Maps data and OpenAI's NLP to recommend restaurants based on what a user actually wants, including cuisine, location, budget and past preferences.
- **Designed a swipe-based interface** that feels familiar and intuitive, with a recommendation engine that gets smarter the more someone uses it.
- **Integrated Firebase for auth, real-time data sync and cloud storage**, keeping the experience fast and consistent across devices.

### AI Chatbot for Website Generation

- **Built a React app that lets users describe a website in plain language** and get back working HTML, CSS and JavaScript code, powered by the OpenAI API.
- **Added features like tabbed code management, live preview and multi-format export** so users could iterate quickly and actually ship what they built.