

CECILIO SAMUEL NAVARRO

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Education

California State University Bakersfield — *Bachelor of Science in Computer Science*

May 2024

- Honors: Cum Laude — Dean's Honor List 4-time recipient
- Organizations: Software Engineering Club, SHPE (Society of Hispanic Professional Engineers), Techqueria
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Operating Systems, Relational Databases and SQL Design, Computer Networks, Full-Stack App Development, Distributed Systems, AI and Machine Learning

Skills

TypeScript, JavaScript, Python, Java, SQL, C++, C, HTML5, CSS3, Kotlin, PostgreSQL, MongoDB, MariaDB, Supabase
React.js, Node.js, Express.js, Docker, AWS, Git, npm, Shell, Backend, iOS/Android App Development, Postman, Agile

Experience

Software Engineer Intern — *Gyrus Inc.*

Oct 2025 – Present

- Designed and implemented intelligent workflow agents using the Google Agent Developer Kit (ADK), coordinating pre- and post-operation callbacks to enable contextual decision-making and adaptive task automation.
- Built and integrated backend tool contexts and schema-creation logic to support multi-agent orchestration, leveraging Python class structures and context-aware workflows for reliable state management across sequential executions.

Full Stack Engineer — *Ministerios Ebenezer Bakersfield*

May 2025 – Present

- Built a full-stack website to manage band resources using TypeScript, Node.js, and MongoDB, replacing OneDrive folders with a centralized, searchable tool for 500+ song profiles, resulting in faster workflows and improved collaboration.
- Engineered scalable authentication and security to protect user sessions with JWT and HTTP-only cookies for registration, login, password resets, and account verification via Resend API emailing, supporting 100+ active user sessions.
- Deployed the React.js web app to production on a DigitalOcean Virtual Private Server (VPS), containerized with Docker Compose to reduce setup time, and optimized API performance with TanStack Query to deliver responses under 180 ms.

Frontend Engineer — *Garcia Auto Detailing*

Jul 2025 – Sep 2025

- Rebuilt a business website by migrating from Squarespace to a custom solution using React.js, TypeScript, Vite, and Tailwind CSS, which improved performance, enabled component-based development, and allowed greater design flexibility.
- Deployed the application on Vercel and configured a custom domain with Porkbun, which ensured CI workflows, automated builds, reliable uptime, streamlined DNS management, and faster client-side rendering across desktop and mobile devices.

Frontend Engineer — *Bro Signs & Prints Inc.*

Oct 2024 – Apr 2025

- Designed a responsive, mobile-first site using Node.js, Express.js, HTML, CSS, and JavaScript; deployed on DigitalOcean and Cloudflare CDN, scaling the business from no web presence to 2,400+ monthly users and generating weekly leads.
- Implemented a Content Delivery Network (CDN) using Cloudflare R2 object storage with video assets adaptive to screen size, achieving faster page loads, 97% cache hit, and 16GB of data served with 12GB cached, reducing load time.
- Integrated a secure contact system with robust server-side validation, Resend email API, and Cloudflare SSL with DDoS protection, achieving a 91/100 PageSpeed Insights score for enhanced reliability and strong spam resistance.

Projects

MIDI Piano Visualizer — *Pianiso.com* — *TypeScript | React.js*

Sep 2025

- Programmed a web app with React.js, TypeScript, and Tailwind CSS that connects to a physical keyboard through the Web MIDI API, interpreting key press and sustain pedal events to visually display a keyboard for tutorials and analysis.
- Built algorithms for multiple play modes using custom React.js hooks and modular architecture; deployed via Vercel, configured analytics, and set up domain and DNS via Porkbun to deliver a smooth user experience.

Bark Buddies — *MongoDB | Express.js | React.js | Node.js*

Jan 2024

- Crafted a full-stack social platform for dog owners using the MERN stack, implementing secure authentication, RESTful APIs with Express/Mongoose, and robust schema validation to ensure data integrity and fast queries.
- Deployed a responsive React.js frontend with dynamic routing and global state management, delivering a seamless cross-device user experience that improved community engagement and boosted retention.

Leadership

Code Forge

Oct 2024 – Present

- Produced video coding tutorials on advanced topics such as data structures, algorithms, and software design principles