Christopher Bray

Curious and detail-minded software engineer with hands-on experience across full-stack and mobile development.
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Summary

Versatile Software Engineer with expertise in full-stack development, AI integration, and cross-platform mobile applications. Proven track record of building innovative solutions using React, React Native, Python, and machine learning technologies. Specialized in creating AI-powered applications with OpenAI API integration, Firebase backend architecture, and comprehensive user experience design.

Key Strengths

- **Full-Stack Development:** React, React Native, Python, TypeScript, and modern web technologies
- **AI Integration:** OpenAI GPT-4o and DALL-E 3 API implementation for intelligent applications
- **Mobile Development:** Cross-platform iOS/Android apps with Expo and React Native
- **Backend Architecture:** Firebase (Firestore, Authentication, Cloud Functions, Storage)
- **Machine Learning:** NLP pipelines, recommendation systems, and data analysis
- **UI/UX Design:** Responsive design, theme systems, and user-centered interfaces

Technical Skills: React, React Native, Expo, TypeScript, Python, Firebase, OpenAI API, Machine Learning, NLP, Git, HTML/CSS, JavaScript, Node.js, Styled Components, React Navigation

Work Experience

Software Engineer / Founder | Unfinished-Work - AI-First Project Partner

Apr 2025 - Present, Petaluma, USA

Full-Stack Mobile & Web Application | React Native, Firebase, OpenAI API

Developed AI-first productivity platform featuring conversational AI Chat with project creation, memory, and context awareness - the core featured functionality

• Built comprehensive AI system with 10+ modes: AI Chat, Daily Coach, Project Critic, Research Assistant, Health Score, Risk Assessment, Timeline Prediction, Priority Matrix, AI Text Rewriting, and AI Visual Generation

• Implemented AI-generated todos and task management with smart suggestions and automated project tracking

• Created DALL-E 3 integration for AI visual generation including project logos, banners, thumbnails, and mood boards with custom style options

• Built cross-platform solution using React Native/Expo with iOS app deployed and integrated OpenAI GPT-4o, GPT-4o-mini, and GPT-3.5-turbo with smart model selection

• Implemented Firebase backend with Firestore database, Authentication, Cloud Functions, and Storage with biometric security (Face ID/Touch ID) and real-time collaboration

• Created token-based subscription system with Apple StoreKit integration supporting free (100 tokens/month), pro ($9.99/month, $99.99/year), pro+ ($19.99/month, $199.99/year), and ultra ($39.99/month, $399.99/year) tiers with token packages (200/$4.99, 600/$12.99, 1500/$29.99)

• Built social features for user discovery, project sharing, and community engagement with responsive UI/UX and dark/light theme support

• Implemented AI cost optimization achieving 90%+ reduction in operational costs through smart model selection, response caching, and usage analytics

Premises Technician | AT&T

Nov - 2015 - Present, San Rafael, CA

Installed and configured broadband and TV equipment, working directly with customers to troubleshoot and optimize service. Coordinate with field teams, document site issues, and find quick fixes that stick.

Executive Assistant | Ferraris-Online LLC

Mar 2008 - Mar 2015, Newport Beach, CA

Supported marketing and communication projects. Helped modernize workflows by introducing new IT tools, improving turnaround and accuracy across the office.

Education

M.S. in Software Engineering | California State University, Fullerton

Aug 2025 - Present, USA

Graduate work that leans heavily on software architecture, testing, and agile methods. We've been building in Java, C++, and Python. I've been surprised by how the same design patterns appear differently in each language. A lot of it is hands-on, which suits me better than straight lectures.

Nanodegree in Data Science | Udacity

Fab 2024 - Mar 2025

Finished several end-to-end projects using Python, SQL, and some ML tools. I spent plenty of time cleaning up messy data and wiring together little ETL jobs until they worked. One of the Flask apps made it to a small cloud demo—nothing fancy, but enough to see how it behaved under real traffic.

Nanodegree in React Development | Udacity

Sep 2024 - Oct 2024

Learned the usual modern React stack—hooks, Redux, and component testing with Jest—but what helped most was building and publishing small front-end projects that actually ran. Each one made me fix something new I hadn't planned for, which stuck with me.

B.S. in Computer Science | California State University, Monterey Bay

Jan 2019 - Dec 2023, USA

Finished a project-based program focused on algorithms, software design, and full-stack development. My capstone tied those together in a real build, which gave the coursework some weight.

Projects

Text Classification Pipeline | Data Science Project Lead

Apr 2025 - May 2025, Remote, USA

Worked on an NLP pipeline that predicted review ratings from text. I cleaned and tokenized the data with spaCy, added TF-IDF features, and tested a few models until one finally stuck around 84 % accuracy. Along the way, I chased down some class-imbalance issues and weird sentiment drift, then wrote up what helped and didn't so that the next run would go faster.

MyReads — Book Tracking App | Front-End Developer

Sep 2024 - Oct 2024, Remote, USA

Put together a React app that tracks what I'm reading and what I've finished. It pulls data from a public API for quick searches, and at one point, fixed the local-storage caching because the results were dragging. It was a small thing, but now it runs smoothly and feels more polished than expected.

InfoRomantic — iOS Dating App | Team Lead / iOS Developer

Oct 2023 - Dec 2023, Petaluma, USA

Led a small student team to design and code a native iOS dating app backed by Firebase for real-time sync. I handled most of the login flow and profile screens in Swift UIKit, and we experimented with a simple match algorithm that worked better than our first plan. We ran over a thousand test simulations and saw roughly a 92 % profile-completion rate before launch.

References

Roy Edger | Manager of Network Services | AT&T

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I've known Roy for around ten years — long before he became a manager. He can give a clear picture of my work and reliability.