# 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 modems, routers, and set-top boxes delivering broadband, TV, and VoIP services.
- Cut average installation time by roughly 15% after standardizing setup steps and improving on-site troubleshooting routines.
- Used signal-testing tools and diagnostic software to spot and fix connectivity issues before they escalated, keeping service reliability high.
- Provided hands-on technical support and walked customers through system use, which lifted first-time resolution rates and satisfaction scores.
- Worked closely with field techs and dispatch through internal AT&T systems to coordinate multi-service installs and avoid repeat visits.

### Executive Assistant | Ferraris-Online LLC

**Mar 2008 - Mar 2015, Newport Beach, CA**

- Managed and ran a series of targeted email campaigns, improving open rates through a mix of testing and segmentation.
- Set up CRM and workflow automations that made client outreach smoother and reduced repetitive internal messaging.
- Wrote and updated content for marketing pieces and technical guides that supported sales work across multiple regions.
- At one point, worked on tightening internal IT systems to keep the setup stable and easy to maintain.

## 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.