Christopher Bray

Software Engineer / Founder | Full-Stack, Mobile, AI

Personal Information

628 214 8280

chris@chrisbraycodes.com

linkedin.com/in/chrisbraycodes

chrisbraycodes.com

207 S Mcdowell Blvd, #1024 Petaluma, CA 94954

Skills

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

Summary

Software Engineer / Founder with 10+ years of technical experience across full-stack, mobile development, and applied AI. Built Unfinished-Work, an AI-first productivity platform with 10+ AI modes using React Native, Firebase, and OpenAI APIs, cutting AI costs by over 90%. Experienced technician with strong troubleshooting skills and customer-facing experience.

Work Experience

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

Petaluma, USA Apr 2025 - Present

- Built and maintain an AI-first productivity platform, designing and implementing end-to-end mobile UI, backend services, data modeling, authentication, and AI integrations.
- Engineered a modular AI system with 10+ modes (chat, critique, research, prioritization, timelines, rewriting) that preserves project context, enabling structured, multi-step decision-making across user sessions.
- Developed a cross-platform React Native/Expo app with Firebase (Firestore, authentication, Cloud Functions, storage) and integrated multiple OpenAI models with configurable logic to optimize quality, latency, and cost.
- Implemented usage tracking, response caching, and model selection that cut AI costs by 90%+, while building subscription tiers, token-based limits, and social features for project sharing and discovery.
- This project reflects how I approach engineering work: designing systems that are practical, maintainable, and cost-aware, while still flexible enough to evolve based on real user behavior.

Premises Technician | AT&T

San Rafael, USA Nov 2015 - Present

- Delivered 10+ years of customer-facing technical support installing, configuring, and troubleshooting broadband, TV, and VoIP in live environments, meeting strict quality and time targets.
- Diagnosed root causes using signal-testing tools, diagnostics software, and structured isolation, achieving high first-visit resolution rates that reduced repeat service calls and improved service reliability.
- Standardized installation and setup procedures, reducing average install time by ~15%, and coordinated with dispatch, engineering, and field technicians via internal AT&T systems to resolve complex multi-service issues.
- Operated in high-accountability environments, translating technical details for non-technical users and consistently delivering scalable, reliable outcomes aligned with software engineering, operations, and reliability-focused roles.

Executive Assistant | Ferraris-Online LLC

Newport Beach, USA Mar 2008 - Mar 2015

- Managed and supported targeted email campaigns over multiple years, helping improve engagement through testing, segmentation, and consistent refinement of messaging.
- Set up and maintained CRM workflows used across marketing and internal operations, which reduced repetitive communication and made client outreach more efficient.
- Wrote and updated marketing content and technical documentation used to support sales efforts across multiple regions.
- Also assisted with improving and maintaining internal IT systems to keep day-to-day operations stable, organized, and easy for the team to work with

Projects

Data Science Project Lead | Text Classification Pipeline

Remote, USA *Apr 2025 - May 2025*

Education

M.S. in Software Engineering
California State University, Fullerton
Fullerton, USA, Aug 2025 - Jun 2027

- Engage in a rigorous M.S. Software Engineering curriculum emphasizing software architecture, design patterns, testing strategies, and agile project management for large-scale systems.
- Build end-to-end applications using Java, C++, Python, and web technologies, emphasizing clean code, modular design, and maintainability in both individual and team-based projects.
- Execute structured testing practices—including unit, integration, and system testing—using automated testing frameworks to increase code coverage and reduce defect rates in course deliverables.
- Contribute to agile, team-driven software engineering projects with defined milestones and metrics, consistently meeting sprint objectives and delivering features aligned with real-world industry standards.

B.S. in Computer Science
California State University, Monterey Bay
Seaside, USA, Jan 2019 - Dec 2023

- Earned a B.S. in Computer Science through a rigorous, fully online program emphasizing algorithms, object-oriented programming, databases, and full-stack application development.
- Designed and developed "Info-Romantic," a native iOS dating app written in Swift that featured profile creation, preference-based filtering, and an intuitive mobile UI tailored for user engagement.
- Implemented scalable app architecture using MVC patterns, RESTful API integration, and secure data handling, improving feature delivery velocity and reducing integration defects across project milestones.
- Demonstrated proficiency in collaborative software development by planning sprints, documenting system design, and presenting capstone outcomes to faculty, resulting in top-tier evaluations for both technical depth and UX quality.

- Led development of an NLP pipeline to predict review ratings from text using spaCy for cleaning and tokenization and TF-IDF for feature extraction.
- Experimented with multiple machine learning models, ultimately achieving approximately 84% classification accuracy on held-out data.
- Identified and mitigated class-imbalance issues and unusual sentiment drift, documenting both effective and ineffective approaches to accelerate future iterations.

Front-End Developer | MyReads — Book Tracking App
Remote, USA *Sep 2024 - Oct 2024*

- Built a React-based book tracking app enabling users to manage current reading activity and completed books.
- Integrated a public API to support fast book search and retrieval of metadata, improving discoverability and user experience.
- Diagnosed and fixed localStorage caching issues that were slowing down search results, significantly improving perceived performance and polish.

Team Lead / iOS Developer | InfoRomantic — iOS Dating App
Petaluma, USA *Oct 2023 - Dec 2023*

- Led a small student team to design and develop a native iOS dating app backed by Firebase for real-time data synchronization.
- Implemented most of the login flow and profile screens using Swift and UIKit, while iterating on a simple match algorithm that outperformed the initial approach.
- Ran over a thousand test simulations and achieved roughly a 92% profile completion rate prior to launch, validating the onboarding and profile UX.

Certifications

Nanodegree in Data Science, Udacity

Mar 2025

- Completed Udacity Data Science Nanodegree by building 4+ end-to-end projects using Python, SQL, and machine learning on real-world datasets.
- Engineered data pipelines and ETL workflows to clean, transform, and validate large, messy datasets, improving data quality and reliability by over 30% in project evaluations.
- Developed and deployed a Flask-based web application to a cloud environment, enabling interactive data exploration and model inference with sub-second response times on sample workloads.
- Applied statistical analysis, exploratory data analysis (EDA), and model evaluation techniques to optimize predictive performance, achieving up to 15–20% accuracy gains over baseline models.

Nanodegree in React Development, Udacity

Oct 2024

- Completed an intensive Udacity Nanodegree in React Development, mastering modern React stack including hooks, functional components, state management, and component testing with Jest.
- Developed multiple full-stack projects using React, TypeScript, Node.js, and Firebase, increasing feature delivery speed by implementing reusable components and modular architecture.
- Implemented responsive UI/UX with HTML/CSS, Styled Components, and React Navigation, improving mobile and web layout consistency across devices by standardizing theme systems.
- Integrated OpenAI API (GPT-4 class models) and basic machine learning/NLP pipelines into React applications, enhancing app intelligence and user engagement metrics in project evaluations.