CHRISTOPHER REBOLLAR-RAMIREZ

Los Angeles, CA

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Education

University of California San Diego

La Jolla, California

Bachelor of Science in Mathematics & Computer Science

Expected Graduation, Summer 2025

Bachelor of Science in Cognitive Science with a Specialization in Machine Learning and Neural Computation

Relevant Coursework

- Advanced Data Structures in C++
- Supervised Machine Learning Algorithms
- Practical Data Science with Python
- Algorithm Design & Analysis
- Software Engineering
- Machine Learning in Practice using Python
- Operating Systems Principles
- Computer Organization in C/ARM
- Deep Learning

Experience

APF Hospice Inc.

Upland, California

Jan 2025 – Present

Software Engineer

- Redesigned and migrated company website from Wix to a custom Next.js app on Vercel, boosting site discoverability by 25% through faster load times, fully responsive design, and enhanced accessibility.
- Implemented multilingual support with next-intl, improving accessibility and SEO in English and Spanish, and expanding audience
 reach.
- Integrated Formspree for streamlined client communication through efficient form handling.
- Collaborated with stakeholders to align technical solutions with organizational mission and community outreach goals.

 ACM Hack
 La Jolla, California

 Team Lead
 Sept 2024 – Jan 2025

- Developed Swipe Style, a Tinder-inspired web app for browsing fashion items, using MERN Stack and TailwindCSS.
- Implemented 10 API routes for managing user interactions and integrating Google OAuth for secure authentication.
- Led a team of 5 members, organized weekly meetings, and delegated tasks to ensure efficient development.

Projects

ICE Tracker | Full-Stack Web App

- Built a real-time web app enabling communities to anonymously report and track ICE activity, supporting 500+ active users.
- Engineered a scalable serverless backend with Firebase, Google Maps API, and OpenAI for geolocation, content moderation, and automated pin archival via a scheduled task.
- Developed responsive, interactive UI using **Next.js**, **React Leaflet**, and **Tailwind CSS**, with multilingual internationalization using **next-intl**
- Improved code reliability through comprehensive unit, integration, and E2E testing with Jest and streamlined deployment using automated CI/CD through Vercel and Firebase Hosting.

Habitizer | Android App

- Developed Habitizer, a productivity app that lets users build and manage multi-task routines, with real-time tracking via a custom stopwatch feature.
- Built and maintained CI/CD pipelines using Github Actions to automate builds, testing, and deployment, streamlining development workflows.
- Collaborated with a team of 5 in an Agile environment, contributing to sprint planning, feature implementation, and peer code reviews.
- Ensured app stability through unit, integration and UI testing with JUnit and Robolectric.

Shakespeare RNN | Deep Learning, NLP

- Achieved record-low test loss of 1.3237 by developing LSTM and RNN models with up to 512-character sequence handling, optimized further with a 300-neuron dual-hidden-layer configuration.
- Enhanced training convergence and text quality using teacher forcing, significantly improving model performance across various temperature settings. Balanced grammar and creativity in text generation to mimic Shakespeare at medium temperatures.

Technical Skills

Languages: Python, JavaScript, TypeScript, C++, Java, Swift, HTML/CSS

Frameworks & Tools: React.js, Next.js, Node.js, Express.js, Firebase, Flask, AWS, MongoDB, SQL, DynamoDB, TailwindCSS

Developer Tools: Git, Docker, GDB, JDB, Valgrind, GPROF

Certification: PC Core Hardware A+ Cert, PC Operating System A+ Cert

Professional Skills: Communication, Time Management, Teamwork, Critical Thinking