

Santiago Palomares

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EDUCATION

University Of California, Irvine

Irvine, CA

B.S. Software Engineering | GPA: 3.65/4.0 | 7x Dean's Honor Award

June 2025

- **Relevant Coursework:** Object Oriented Programming, Software Design, Algorithm Design and Analysis, Data Structures Implementation, Information Retrieval, Database Management, Computer Networks
- **Activities:** Peterworks Drones, Database Research Lab, Google Developer Student Club

TECHNICAL SKILLS

Programming Languages: Python, C/C++, SQL, JavaScript, HTML/CSS, Kotlin

Frameworks and Libraries: React, Node.js, Express.js, Flask

Tools and Technologies: Git, Docker, AWS, Gradle, Figma, Jira

EXPERIENCE

Legacy Robotics

Sep 2024 – June 2025

Software Engineer

- Engineered real time data processing pipeline with Python and ROS2, transforming JSON sensor streams and performing coordinate analysis for autonomous rover movement goals
- Developed mission control dashboard with React and Node.js backend to monitor 6+ rover sub systems and track mission data during University Rover Challenge competitions
- Pioneered containerized development environment with Docker, reducing onboarding time by 80% through automated setup and dependency management

Beats by Dre

Jul 2024 – Sep 2024

Data Analyst Extern

- Architected comprehensive data processing pipeline with Python, Pandas, and NumPy to analyze 6000+ consumer reviews, creating text cleaning and exploratory data analysis workflows
- Executed sentiment analysis with NLTK and TextBlob libraries, categorizing feedback themes and identifying 3 customer segments for targeted marketing insights
- Generated data visualizations with Matplotlib and Seaborn, delivering statistical summaries and trend analysis for stakeholder presentations

PROJECTS

ThoughtfulBites | *MySQL, React, TypeScript, Node.js, RESTful APIs, AWS*

- Conceptualized and deployed MySQL database schema with user profiles, dietary restrictions, and restaurant data tables, developed complex queries to filter menu items based on user preferences
- Orchestrated full stack application deployment on AWS infrastructure with EC2 for hosting and RDS for database management, handled concurrent user sessions and API data processing
- Collaborated with team to build backend API with Node.js to process and filter data from Google Maps, Places, and Geocoding APIs, deployed real-time data transformation for personalized recommendations

ID Tech Products | *Kotlin, Java, XML, Android, Figma, zSDK*

- Spearheaded 3 production-ready Android applications for AP6800 payment terminal demonstrations, generating 15+ sales leads at industry trade shows through intuitive showcase experiences
- Integrated secure payment processing with zSDK SDK, supporting 4 transaction methods including swipe, tap, insert, and QR code while maintaining 100 percent transaction reliability
- Conceived user interfaces in Figma and crafted applications in Kotlin, reducing user error rates by 25 percent and decreasing average transaction time by 15 seconds

Information Retrieval Search Engine | *Python, Flask, NLTK, Porter Stemming*

- Constructed full scale search engine processing 56000+ web pages with custom inverted index and TF-IDF ranking algorithms, utilizing memory efficient data structures and disk based indexing systems
- Established text preprocessing pipeline with NLTK and Porter stemming, developing tokenization and term weighting systems for enhanced document retrieval performance
- Launched Flask web application achieving sub-300ms query response times across 20+ test queries, enhancing file I/O operations and search algorithms for high-performance document corpus querying