

ROCHANE HURST

US Citizen

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Education

California State University San Marcos

Bachelor of Science in Computer Science — GPA: 3.92/4.0

Expected May 2026

San Marcos, CA

Relevant Coursework

- Data Structures & Algorithms
- Database Systems
- Operating Systems
- Software Engineering
- Cloud Computing
- Computer Architecture
- Mobile Programming

Experience

Frontgrade Technologies – Aethercomm

Feb 2023 – Jan 2024

Engineering Administrator

Carlsbad, CA

- Built Excel trackers (pivot tables, charts) to monitor engineering timelines and resource usage; flagged bottlenecks to improve workflow visibility and reduce delays.
- Maintained cost/capacity spreadsheets, enabling accurate forecasting and better budget planning.
- Standardized milestone tracking and documentation workflows, reducing compliance errors.
- Facilitated progress reviews with engineers and leadership to align priorities and improve communication.

Prudential Financial

Jul 2022 – Jan 2023

Senior Retention Representative

Remote

- Resolved escalated client and broker issues while meeting retention targets and improving customer trust.
- Simplified complex insurance policies and investment options, enhancing client understanding and decision-making.
- Collaborated across departments to resolve cases, strengthening analytical and communication skills.

Projects

Airbnb U.S. Market Insights | *SQL, Tableau*

- Cleaned and transformed 500K+ Airbnb records (deduplication, normalization, city/state standardization).
- Wrote advanced SQL (CTEs, window functions, fuzzy matching) to analyze pricing/demand by market and property type.
- Designed Tableau dashboards with interactive filters to surface trends and pricing opportunities.

Airline On-Time Performance & Delay Cost Analysis | *Python, Pandas, Matplotlib*

- Analyzed Bureau of Transportation Statistics data to quantify delay costs across major U.S. carriers.
- Built visualizations to reveal delay trends by airline, route, and season, highlighting potential cost savings.

Cluster: Class Scheduling Optimization App | *C++, Qt, Agile, QTest*

- Developed schedule logic, form validation, and conflict detection for a Qt desktop app helping students minimize walking distance between classes.
- Led unit testing with QTest and contributed to Software Requirements & Design Specifications.
- Worked in a 4-person Agile team delivering iterative features and documentation.

Stock Tracking Web App | *Flask, Python, JavaScript, Bootstrap, Alpha Vantage API*

- Implemented backend using Flask to fetch and serve live stock data via Alpha Vantage API.
- Built interactive front-end using JavaScript/Bootstrap for real-time stock price and volume visualization.

Technical Skills

Languages: Python, SQL, C++, Java, Kotlin

Data Tools: Excel (pivot tables), Tableau, Power BI, Pandas, Matplotlib, Jupyter Notebooks

Software Development: Flask, Git/GitHub, Agile/Scrum, Unit Testing

Developer Tools: VS Code, PyCharm, IntelliJ, Android Studio

Languages

Fluent in English and Brazilian Portuguese