

Alex Zaharia

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EDUCATION

California Polytechnic State University

Bachelor of Science in Computer Science

San Luis Obispo, CA

September 2020 – August 2024

Universidad Carlos III de Madrid

Study Abroad

Madrid, Spain

September 2022 – December 2022

EXPERIENCE

Computer Science Curriculum Developer/Tutor

June 2023 – Present

Grade Potential / Freelance

Remote

- Empowered 30+ students to reach their academic computer science goals by personalizing 4 crash courses, 24 lessons, 24 assignments, and 12 mastery projects for Java, Python, SQL and Web Development

Software Engineer/Real Estate Sales Intern

June 2022 – August 2022

206 Realty

Bellevue, WA

- Cut down manual data retrieval efforts by 83.3%, saving 4 hours of labor per week, by developing a pipeline using Python (Pandas) to pre-process 242,962 leads and create a MySQL database for efficient querying
- Boosted lead conversions by 26% by coding a Lead Prioritization Tool that used correlation analysis to identify 2,388 high-priority leads for targeted outreach with Python (Pandas, Matplotlib, Seaborn)

Blockchain Project Manager

April 2020 – August 2021

HODLRocket & The Secret Society of Pixel Thugs

San Luis Obispo, CA

- Exceeded a \$30,000 market cap and built a community of 1000+ members by leading a cross-functional team of 8 in orchestrating the successful launch of a BEP-20 token on the Binance Smart Chain
- Composed and sold the visual identity of an NFT collection for \$3,000, designing 302 traits in Adobe Illustrator and generating 1.5 trillion unique NFTs from layer randomization and meta data integration using Javascript

PROJECTS

Gridiron GPT | Python, React, PostgreSQL, OpenAI, Leaflet, AWS S3, Supabase

April 2024 – Present

- Automated a Python pipeline using Jupyter Notebooks to process and restructure 344,283 data entries from 10 sources in a PostgreSQL database hosted on Supabase, reducing average query response times by 35%
- Migrated the Draft Assistant and Trade Analyzer tools from Swift to React, which previously achieved 30 wins and 65 Top-3 Finishes out of 100 leagues during testing of the 2023 fantasy football season on iOS
- Grew user engagement times by 25% in testing by utilizing Leaflet for an interactive map-based Matchup Analyzer and OpenAI for content generation and a Search Engine that transforms natural language to PostgreSQL queries

Predictive Modeling Tool for Real Estate Prices (In the USA) | sci-kitlearn

June 2024

- Cleaned 2,226,382 data entries from Kaggle, conducted Exploratory Data Analysis (EDA) and boosted models accuracies by up to 63% with hyperparameter tuning and cross-validation with GridSearchCV
- Optimized tool efficiency by evaluating models on RMSE, CV Score, and Processing Time, opting to use Decision Trees for 38x faster processing with just a 4% accuracy trade-off compared to Random Forest

Haggle | React, MySQL, PostgreSQL, TalkJS, GCP, AWS, Supabase, Illustrator

January 2024 – June 2024

- Led a team of 5 using Agile methodology to develop a web-based marketplace with React, managing the product backlog on GitHub and utilizing Discord to drive collaboration and meet all project deadlines effectively
- Engineered 100% of user authentication with Figma, React and Google Cloud's OAuth to reduce sign-in times by 5x, and integrated TalkJS to develop the Inbox and Chat tools, growing user engagement time by 50% in testing
- Accelerated deployment time by 32% by migrating CI/CD pipeline management from OnRender to Azure and reduced bugs by 24% with unit testing using Jest and with Test-Driven Development across core features

SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, SQL (Postgre, MySQL, SQLite3), NoSQL (MongoDB)

Software Engineering: React, OOP, Agile, CI/CD, TDD, Unit Testing (JUnit, Jest)

Data Science & ML: scikit-learn, NumPy, pandas, Matplotlib, Apache Spark (PySpark), Hadoop, MapReduce

Cloud Platforms: AWS (S3), Google Cloud Platform (OAuth), Supabase, Microsoft Azure

Developer Tools: GitHub, Unix, Jupyter Notebooks, VSCode, IntelliJ, PyCharm, Figma, UML, Illustrator, Photoshop