Alex Zaharia

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EDUCATION

California Polytechnic State University — San Luis Obispo, CA
Bachelor of Science in Computer Science — *September 2020 – August 2024*

Universidad Carlos III de Madrid — Madrid, Spain
Study Abroad — *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
- Pioneered the full-stack development of a fantasy football data analysis and strategy platform using React
- 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 PostrgreSQL 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, choosing 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 using React and Google Cloud's OAuth to reduce sign-in times by 5x, and integrated TalkJS to develop the Inbox and Chat features, growing user engagement time by 50% in testing

SKILLS

Soft Skills: Leadership, Adaptability, Decision-Making, Collaboration, Problem-Solving, Creativity, Organization
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 (GCP), Supabase, Microsoft Azure
Developer Tools: GitHub, Unix, Jupyter Notebooks, VSCode, IntelliJ, PyCharm, Figma, UML, Illustrator, Photoshop