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 Tutor — June 2023 – Present
Grade Potential — *San Luis Obispo, CA*
- Empowered 30+ students to reach their academic computer science goals
- Personalized lesson plans, study material, and hands-on projects for Java, Python, SQL and web development

Software Engineer/Real Estate Sales Intern — June 2022 – August 2022
206 Realty — *Bellevue, WA*
- Fully redesigned the internal database schema and data collection processes
- Analyzed historical conversion trends to identify key factors for successful client acquisition
- Developed a lead prioritization tool in Python, boosting lead conversion rate by 28%
- Executed 2,000+ cold calls, strategically identifying and setting up high-priority leads for further engagement

Blockchain Project Manager — April 2020 – August 2021
HODLRocket & The Secret Society of Pixel Thugs — *San Luis Obispo, CA*
- Achieved a $110,000 market cap by orchestrating the successful launch of a BEP-20 token and an NFT collection
- Led, mentored, and grew with a cross-functional team of eight in a fast-paced work environment
- Fostered a culture of engineering excellence by persisting through various challenges and failures

PROJECTS

Gridiron GPT | *Python, React, PostgreSQL, OpenAI, Leaflet, Supabase, Illustrator, nfl-verse*   April 2024 – Present
- Leading the full-stack development of an NFL Fantasy Football data analysis and strategy platform
- Automated a data pipeline in Python to process and synchronize 300,000+ NFL data entries with Supabase
- Engineered tools to assist users with drafting, trading, rankings, and analysis utilizing React, OpenAI, and Leaflet
- Optimizing machine learning models in scikit-learn to project player performances and analyze game matchups

Predictive Modeling Tool for Real Estate Prices (In the USA) | *sci-kitlearn*   June 2024
- Developed a ML tool to predict home prices in the USA
- Processed 2,226,382 entries of real estate data from Kaggle and conducted Exploratory Data Analysis (EDA)
- Evaluated multiple ML models (Linear Regression, Decision Trees, Random Forest, Gradient Boosting) using RMSE and CV scores to identify the most accurate, yet time effective model
- Increased models' accuracy up to 63% by implementing hyperparameter tuning and CV using GridSearchCV

Haggle | *React, MySQL, PostgreSQL, TalkJS, GCP, AWS, Supabase, Illustrator*   January 2024 – June 2024
- Led and motivated a diverse team of five in designing and developing a full-stack online marketplace
- Curated high-priority user stories, personas, and maintained the product backlog on GitHub
- Engineered all user authentication and chat features, utilizing React, OAuth, and TalkJS
- Implemented unit testing with Jest, TDD, and managed CI/CD pipelines for Azure deployment

SKILLS

Soft Skills: Leadership, Adaptability, Decision-Making, Collaboration, Problem-Solving, Creativity, Organization
Languages: Java, Python, C/C++, JavaScript, SQL (Postgre, MySQL, SQLite3), NoSQL (MongoDB), HTML/CSS, R
Software Engineering: React, Agile, TDD, CI/CD, Unit Testing (JUnit, Jest), OOP
Data Science & ML: scikit-learn, NumPy, pandas, Matplotlib, Apache Spark (PySpark), Hadoop, MapReduce
Cloud Platforms: Google Cloud Platform (GCP), AWS (S3), Supabase, Azure
Developer Tools: Git, Docker VSCode, IntelliJ, PyCharm, GitHub, Unix, Figma, UML, Illustrator, Photoshop
APIs & Libraries: REST, OpenAI, Leaflet, TalkJS, OAuth, nodemailer, bcrypt, crypto, nfl-verse