

# Alex Zaharia

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## EDUCATION

### California Polytechnic State University

*Bachelor of Science in Computer Science*

San Luis Obispo, CA

*Sept. 2020 – Aug 2024*

### Universidad Carlos III de Madrid

*Study Abroad*

Madrid, Spain

*Sept. 2022 – Dec 2022*

## EXPERIENCE

### Computer Science Tutor

*Grade Potential*

June 2023 – Present

*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

*206 Realty*

June 2022 – August 2022

*Bellevue, WA*

- Collaborated with my manager to fully redesign 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

*HODLRocket & The Secret Society of Pixel Thugs*

June 2022 – August 2022

*San Luis Obispo, CA*

- Orchestrated the successful launch of an NFT collection on the Cardano Blockchain and a BEP-20 token on the Binance Smart Chain, achieving a \$110,000 valuation
- Led, mentored, and grew with a team of eight members 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, nfl-verse, Supabase*

April 2024 – Present

- Spearheading the full-stack React development of a NFL Fantasy Football platform
- Automated a data pipeline to scrape, clean, and aggregate 10+ NFL-related sources on a daily basis
- Architected UML diagrams and Supabase database to manage over 300,000 entries of user and NFL data
- Leveraged the OpenAI API to build a dynamic search tool, transforming user queries into PostgreSQL queries
- Built a drafting tool, trade analyzer, and rankings tables to optimize lineups and trades
- Optimizing ML models using scikit-learn to generate projections and analyze matchups
- Integrating with ESPN, Yahoo, and Sleeper to allow for personalized fantasy football recommendations

### Haggle | *React, MySQL, PostgreSQL, TalkJS, GCP, AWS, Supabase*

January 2024 – June 2024

- Took initiative to lead and motivate a cross-functional team of five to develop a full-stack online marketplace
- Monitored project progress, timelines, and resource allocation, ensuring all milestones were being met
- Developed and managed high-priority user stories, personas, and a comprehensive product backlog in Github
- Designed UML and Figma models for planning frontend/backend designs
- Handled user authentication (login, sign-up, password management), integrating OAuth and nodemailer
- Leveraged TalkJS for developing chat features (chat rooms and inbox), allowing users to 'haggle'
- 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 (PostgreSQL, MySQL, SQLite3), NoSQL (MongoDB, DynamoDB), 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, Microsoft Azure

**Developer Tools:** Git, Docker VS Code, IntelliJ IDEA, PyCharm, GitHub, Unix

**Design:** Figma, UML, Adobe Illustrator, Adobe Photoshop