

ALEX C. ZAHARIA

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EDUCATION

California Polytechnic State University - San Luis Obispo (Cal Poly)

September 2020 - June 2024

Bachelor of Science in Computer Science, Major GPA: 3.1

Universidad Carlos III - Madrid, Spain

September 2022 - December 2022

Study Abroad, Fall 2022, GPA: 3.5

SKILLS

Programming: C, Java, Python, Swift, Git, Unix, HTML, CSS, Javascript, React, APIs, RISC-V, ARM, LC3

Data: scikit-learn, SQL, Apache Spark, RDD, Apache Hadoop, MapReduce, Firebase, Pandas, R

Languages: English, Romanian, Spanish

EXPERIENCE

Computer Science Tutor at Grade Potential

June 2023 - Present

- Demonstrating leadership, adaptability, and interpersonal skills by mentoring students to reach their academic computer science goals
- Designing lesson plans, study materials, and hands-on projects tailored to individual students' needs and learning styles, focusing on Java and Python, data analysis in SQL, Pandas, and R, and hardware

Software Engineer Intern at 206 Realty

June 2022 - August 2022

- Developed a Python tool for aggregating and analyzing client data, generating data driven recommendations for prioritizing client leads
- Integrated and pre-processed data from internal databases and Excel sheets to find potential clients
- Designed a prioritization algorithm that ranked client leads based on conversion likelihood

PROJECTS

Predictive Modeling Tool for Real Estate Prices (In the USA)

April 2024

- Created a predictive modeling tool for U.S. home prices using various machine learning models
- Performed data preprocessing and exploratory analysis to enhance model accuracy
- Evaluated multiple models to identify the best techniques for real estate price prediction

Haggle

January 2024 - Present

- Full stack React development utilizing Agile Sprint processes on a team of five to create a student-oriented online marketplace
- Developing with React, React Router, Axios, JWT, Node.js, nodemailer, OAuth/Google APIs, Express.js, SQL, PostgreSQL, Supabase, OnRender, Azure, Adobe Illustrator, and Photoshop

GridIron GPT

September 2023 - Present

- Full stack react development using React, OpenAI, SQL, Firebase, Sportsdata.io API
- Leveraged the OpenAI API to build a dynamic search engine for football data in a SQL database
- Implemented user authentication and real-time data synchronization using Firebase, optimizing application responsiveness and performance

Jamba Juice Database Model

February 2024 - April 2024

- Outlined information needs, designed a SQL database schema for Jamba Juice, created an Entity/Relationship UML model and transformed it into SQL DDL
- Enhanced database integrity through schema refinement, lossless decomposition, and constraint preservation based on functional dependencies
- Leveraged Java Persistence API (JPA) for object-relational mapping to MySQL, and crafted queries to address information needs

2023 Fantasy Football Quarterback Analysis

June 2023 - August 2023

- Developed ETL processes using Apache Spark, Dataframes, and SQL to analyze over 114,000 lines of weekly NFL player data from 1990 to 2022
- Created data pipelines to evaluate quarterbacks' fantasy football production, individual performance considering team dynamics, and to categorize quarterbacks in a tier list