

# Zain Jandali

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## EDUCATION

University of California, Berkeley

Aug 2020 - Aug 2024

BA, Computer Science & Data Science – Cognition Emphasis

GPA: 3.6

### Relevant Coursework:

**Data Science:** Machine Learning, Foundations of Data Science, Principles and Techniques of Data Science, Ethics of Data Science, Concepts of Probability, Discrete Math and Probability Theory, Economic Demography

**Computer Science:** Structure of Computer Programs, Data Structures and Algorithms, Machine Structures, Computer Security, Artificial Intelligence, Software Engineering, User Interface and Design, Probability and Random Processes

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, HTML/CSS, Bash, Go, R, C#, C/C++, Ruby, PHP, Swift

**Frameworks:** React.js, Node.js, Vue.js, django, Flask, SpringBoot, Ruby on Rails, FastAPI, Flutter, ASP.NET Core, Flutter;

**DevOps and Cloud Technologies:** Docker, Kubernetes, AWS, Azure; **Databases:** PostgreSQL, MongoDB, Redis, MySQL, Elasticsearch, Weaviate; **Tools/Platforms:** Git, GitHub, GitLab, Jira, Confluence, Visual Studio Code;

**Data Science/ML:** Pandas, PyTorch, scikit-learn, Keras **Testing Frameworks:** JUnit, pytest, Cypress **Other Skills:** RESTful APIs, GraphQL, Microservices, Agile (Scrum, Kanban), CI/CD, Unit Testing, TDD, Apache Kafka, RabbitMQ

## WORK EXPERIENCE

StudySquirrel

May 2021 – June 2022

*AI Software Developer*

*Berkeley, CA*

- Developed advanced AI-driven features for the StudySquirrel web application, enhancing the learning experience for over 2,000 student users.
- Engineered a high-performance search engine using Docker, Flask, Node.js, Pandas, Weaviate, and TensorFlow, significantly improving search speed and accuracy.

Activism Always

June 2021 – Nov 2021

*Data Scientist*

*Berkeley, CA*

- Designed and implemented a user-friendly social media insight metrics tool, streamlining strategic planning for diverse organizations, including small businesses, B-corps, and startups, enhancing their social media influence by 40%.
- Led the successful beta testing phase, attracting over 7,000 users, and gathering valuable feedback that drove significant improvements in the platform.

## PROJECTS

### Trailmate

- Created a hiking platform that leverages React, Node.js, and machine learning to provide personalized trail recommendations and real-time condition updates. The application integrates Elasticsearch for efficient searching, IoT sensors for trail monitoring, and is deployed using Docker and Kubernetes on AWS, showcasing a scalable, microservices architecture with 99.9% uptime.

### Gitlet

- Created a git-like version control system in Java that simulates the hash-based storage system that git provides, including primary local git operations like add, commit, delete, branch, merge, and so on, as well as typical remote functions like add-remote, push, fetch, and pull.

### NeurAI Explorer

- Created an advanced Python-based tool that combines neural network modeling with automated research incorporation, dynamically adjusting model architectures based on the latest findings in machine learning literature. The project scrapes recent research papers from arXiv, analyzes their content using natural language processing, and automatically modifies neural network structures and hyperparameters.

## AWARDS

### UCLA Freshman Regents Scholarship

- Awarded to the top 1.5% of admitted students at the University of California, Los Angeles, recognizing outstanding academic excellence, leadership, and potential for future contributions, as selected by a committee of esteemed faculty members.

### UCLA Alumni Scholarship

- Recognized for exceptional academic excellence, influential leadership, and a strong commitment to driving change.