

Nela Taeb

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EDUCATION

University of California, Berkeley

May 2024

Bachelor of Arts (B.A.) in Data Science | Concentration in Business Analytics

GPA: 3.70

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Web Development, Machine Learning, Artificial Intelligence, Business Analytics, Data Mining, Foundations of Data Science, Engineering Leadership, Probability Theory, Statistics

SKILLS & INTERESTS

Languages: Python, Java, JavaScript, TypeScript, C++, SQL, HTML/CSS, MATLAB

Libraries: React.js, Node.js, Flask, Django, Pandas, NumPy, Bootstrap

Software: Kafka, MongoDB, Docker, Kubernetes, Excel, Tableau, Git, AWS, Azure, Shell, Linux, Figma, JIRA

EXPERIENCE

Software Engineering Intern | Cerevox

Berkeley, California | Aug 2023 - Dec 2023

- Focused on backend engineering on an ETL platform that normalizes unstructured text data for mid to large enterprises
- Collaborated alongside the CTO to design, build, and deploy a conversational AI tool using Javascript and Python
- Built a customer-facing Command Line Interface (CLI) in Node.js to increase end-developer productivity
- Organized software development project roadmaps & daily sprint meetings using Agile Methodologies in JIRA/Confluence

Data Structures Intern | UC Berkeley EECS

Berkeley, California | June 2023 - Dec 2023

- Served as an academic intern for the introductory data structures class in Java with 1800+ enrolled students
- Curated custom curriculum during office hours around basic data structures, runtime analysis, and pathfinding
- Achieved a 97% teaching quality rating from students in office hour & lab sections

Web Developer | iDream Motors

Danville, California | April 2023 - June 2023

- Architected and implemented a scalable web application using Typescript and Node.js for a local small business
- Designed a robust session management system and integrated a third-party API to enhance the front-end user experience
- Successfully merged an existing inventory management system into the website to handle high-volume transactions

Data Science Researcher | UC Berkeley Department of History

Berkeley, California | Jan 2023 - May 2023

- Built a web app using HTML, CSS, & Javascript – allowing users to interact with the Project on Arms Trade History dataset
- Identified and resolved bugs, including content and formatting discrepancies – leading to a 20% increase in user engagement
- Leveraged the Pandas library and Tableau to conduct EDA targeting and fixing any mis-imputed values in the large dataset

PROJECTS

Gitlet | Java

Berkeley, California | March 2024

- Recreated a local version-control system modeled after Git's functionality using a Command Line Interface (CLI)
- Implemented 20+ commands (commit, merge, branch, etc) using file persistence, serialization, and JUnit testing
- Achieved logarithmic time and space complexity through the usage of hashing and maps

Build Your Own World 2D Game Engine | Python

Berkeley, California | April 2023

- Developed a 2D tile-based world exploration engine that generates pseudo-random worlds according to a seed number
- Implemented deterministic user interaction, providing a consistent user experience
- Optimized a generation algorithm to create different worlds each time with no underlying basic layout of predictable features

NGordnet (NGram and WordNet) | Java, JavaScript, HTML/CSS

Berkeley, California | March 2023

- Developed a semantic lexicon for the exploration of historical usage of words in English texts through a web-based interface
- Utilized HTML/CSS to design an algorithm that converts text-based history of word(s) into a visual representation
- Improved the accuracy of the tool by incorporating the creation of synsets describing semantic relationships between words