

ADNAN AMAN

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EDUCATION

UC Berkeley

Bachelor of Arts in Computer Science

Class of 2025

Berkeley, CA

Relevant Coursework:

Computer Architecture, Discrete Math and Probability, Data Structures, Probability for Data Science, Linear Algebra, Structure of Computer Programs, Introduction to Database Systems, Efficient Algorithms and Intractable Problems

EXPERIENCE

Android Software Engineer

CodePath

August 2021 – January 2022

Irvine, CA

- Architected and developed feature-rich Android applications, leveraging advanced API integrations, custom UI components, and data-driven design patterns.
- Mastered intricacies of the Android development ecosystem, adapting modern practices to ensure efficient code, optimized performance, and a seamless user experience.
- Played a pivotal role in a cross-functional team to bring a cutting-edge social fitness app to life, integrating real-time data analytics and fostering user engagement through interactive social posts.
- Conducted thorough code reviews to ensure maintainability, scalability, and adherence to industry best practices.
- Collaborated with UI/UX designers to translate complex designs into fluid user interfaces, ensuring mobile responsiveness and design fidelity.

PROJECTS

CS61KaChow: Optimized 2D Convolutions | *C, SIMD, OpenMP, Open MPI*

April 2023 – May 2023

- Implemented high-performance algorithms for 2D convolutions, leveraging SIMD vector instructions to achieve significant optimizations.
- Utilized OpenMP to further enhance parallelism within individual tasks, demonstrating expertise in multi-threading and concurrent execution.
- Utilized Open MPI for parallel processing, designing a manager-worker architecture with the manager process coordinating tasks among worker processes.

RookieDB: Resilient Database Recovery System | *Java, ARIES Algorithm*

January 2023 – May 2023

- Designed and developed a robust database recovery system using Java, following the ARIES algorithm.
- Implemented essential features including savepoints, fuzzy checkpoints, and crash recovery mechanisms to ensure data integrity and system availability.
- Leveraged Java's functional programming capabilities to enhance codebase readability and extensibility.
- Optimized resource management by implementing efficient disk space allocation and memory buffer utilization strategies.

NGordnet: NLP and Data Analysis | *Java, HTML, CSS*

November 2022 - December 2022

- Analyzed extensive textual datasets, constructed NGram models, and optimized data structures like NGramMap and TimeSeries for efficient word frequency analysis.
- Integrated WordNet, a semantic lexicon, into NGordnet, enabling users to perform word sense disambiguation and explore semantic relationships effortlessly.
- Designed and implemented a user-friendly web interface with interactive data visualization tools, facilitating comprehensive language research and analysis.

TECHNICAL SKILLS

Languages: Java, Python, C, RISC-V Assembly, SQL, MQL, HTML/CSS

Developer Tools: Git, Vim, Linux, MongoDB, JUnit, LaTeX, Android Studio, Logisim