BRENT FRIEDMAN

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EDUCATION

University of California, Berkeley | Berkeley, CA   Expected Graduation May 2025
B.S. - Electrical Engineering and Computer Science   *Cumulative GPA:* **3.76 / 4.0** *(Sp '22 Dean's List)*

Relevant Coursework: Data Structures, Algorithms, Machine Structures, Artificial Intelligence, Computer Security, Discrete Mathematics, Probability Theory, Linear Algebra, Multivariable Calculus, Designing Information Devices and Systems
Organizations: Blockchain at Berkeley, Eta Kappa Nu, Chi Psi Fraternity

SKILLS & TECHNICAL TOOLS

Languages: Python, Java, Javascript, Typescript, C, SQL, Solidity, HTML/CSS, Scheme
Software/libraries: Git, Github, Flask, Pandas, Node.js, React, Express, PostgreSQL, MongoDB, IntelliJ, Jupyter Notebook, AWS, Heroku, Postman, Async, GraphQL, fastCSV, oauth-server

EXPERIENCE

Software Engineering Intern | Campaign Layer *(Web3 Tech Startup)*   *Jun 2023 - Present*
- Play a pivotal role on a small engineering team crafting a cutting-edge music subscription service V1 launch product using Node.js, TypeScript, React, and MongoDB currently being used by artists with millions of monthly listeners.
- Design and integrate key features including reward redemption functionality, user authentication, engagement campaign tracks, and activity monitoring contributing to a 40% surge in artist acquisition post-launch.

Academic Intern | UC Berkeley   *Jan 2023 - May 2023*
- Held office hours for peers in Machine Structures course; taught in-depth C concepts to groups of over 20 students.
- Educated students on low-level concepts from RISC-V to bit-level descriptors; analyzed students' CPU design optimality.

Software Engineering Intern | CodeMaya *(Web Dev Consulting)*   *May 2022 - Aug 2022*
- Developed production-grade REST APIs using a MERN stack, streamlining service delivery for 6 CodeMaya clients.
- Devised an innovative system to intake CSV files for processing and transferring large-scale data (over 100,000 records per upload) into a PostgreSQL database, increasing data accessibility by an estimated 70% – server in use on a daily basis.

PROJECTS

Gitlet | *Java*
- Implemented a version-control system for local and remote repositories that functions exactly as Git does.
- Designed project with treemap data structure and concepts of persistence, serialization, hashing, and file manipulation.

Parking Meters | *Python*
- Application leveraging real-time data from the LADOT public database and Google Maps geocoding which allows users to input an address in LA and view a map displaying all vacant parking meters within a 1km radius.

LEADERSHIP

Treasurer | *Chi Psi Fraternity*   *Jan 2023 - Present*
- Manage a budget of over $200,000 dollars for our 56 members with QuickBooks and Microsoft Excel.
- Work closely with Chi Psi National and Berkeley Holdings to analyze rental contracts, tax documents, and contractor fees.

Head of Social and Course Instructor | *Blockchain at Berkeley*   *Jan 2023 - Present*
- Lead a team of six in organizing and executing events to cultivate a progressive culture for our club of over 60 members.
- Developing and leading as a lecturer in our Blockchain for Developers course taught to over 200 UC Berkeley students.