Aditya Dev Varma

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OBJECTIVE

Rising sophomore at the University of California, Berkeley seeking a summer internship in software engineering and technology. Avid learner with a compelling record of innovative leadership and a keen eye for the intersection of tech and social good.

EDUCATION

University of California, Berkeley   B.A. **Computer Science and Legal Studies**; **GPA: 3.883**   exp. May 2023

Relevant Coursework: Structure of Computer Programs (Python, Scheme, SQL), Data Structures and Algorithms (Java), Field Study in Teaching Computer Science, Introduction to Entrepreneurship, Moral Conflicts in the Constitution, American Foreign Policy

EXPERIENCE

Academic Intern, UC Berkeley Electrical Engineering and Computer Science   Jan 2020 – May 2020
• Lab assistant for UC Berkeley's largest undergraduate computing course (CS61A) with 1400+ student enrollment
• Lecture on and teach topics such as abstraction, inheritance, recursion, Python, Scheme, and SQL syntax once a week to 18 students

Instructional Resilience Task Force, Student Body Nominee   Nov 2019 – May 2020
• Worked with Campus Officials, the Office of the EVCP, the Associated Students of the University of California, and the Graduate Assembly to propose and implement ADA-compliant policy solutions for instruction to continue during times of logistical difficulty.
• Representing 19,000+ undergraduates in the College of Letters and Sciences via process of student body nomination.

Senatorial Chief of Staff, UC Berkeley Student Government (ASUC)   Aug 2019 – May 2020
• Served as Vice-Chair of COVID-19 Relief efforts, helping to allocate $74,000+ to basic needs services, student textbooks and fees, and student food pantries, writing legislation and meeting with campus officials regularly
• Wrote legislation analyzing ASUC bylaws to mandate semester town hall meetings for elected officials
• Prior position as a Legislative and Communications Researcher, with 7+ co-sponsored or sponsored legislative bills passed.

ACADEMIC PROJECTS

Scheme Interpreter | CS61A
• Developed comprehensive Python program to interpret, read, and execute all facets of the Scheme language
• Interpreter supports features such as Macros, function definitions, tail-recursive procedures, 'let' statements, special forms, and Lambda procedures

Gitlet | CS61B
• Created Java program that successfully implements major features of the Git version control system, such as file commits, file state reversions, repository initialization, branches, merges, and remote repository features.
• Maintained thorough design document in Markdown to maintain a high-level overview of program structure and design decisions

Tic Tac Toe AI | Independent Project
• Implemented Graphical User Interface in Java to allow a human player to play a perfect AI player
• Successfully implemented alpha-beta pruning and content-addressable SHA-1 hashing to improve computer game state evaluations by 99% (60,000 game states to ~890)

UC Berkeley GPA Calculator | Independent Project
 • Created Python program that allows individuals to project correct grade point averages for courses at the University of California
 • Implemented dynamic user text interface that allows user error correction and modification of any entered data with real-time re-calculation of GPA

AWARDS/HONORS

• Leslie Lipson Essay Prize for Humanistic Studies | University of California, Berkeley | 2020
• Macksey Humanities Symposium Conference – International Relations and History | Johns Hopkins University | 2020
• Honorable Delegate, United Nations Security Council | College All-Stars Model United Nations 2020
• Essay Shortlist Award | Marshall Economics Society, University of Cambridge | 2019
• National AP Scholar with Distinction | College Board | 2019

ADDITIONAL INFORMATION

Computer Skills: Java (Excellent), **Python** (Very Good), **HTML/CSS** (Very Good), **Scheme** (Intermediate), **SQL** (Basic), Word, Excel, PowerPoint, GIMP, Git Version Control System
Languages: Hindi (Excellent), Spanish (Very Good), English (Native)