Anish Kashyap

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Education

University of California, Berkeley Berkeley, CA

B.A. Computer Science and Applied Mathematics *Expected Graduation: May 2023*

- Cumulative GPA: 3.85/4.0
- Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structures, Discrete Mathematics and Probability Theory, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Probability and Random Processes
- Honors and Societies: Capital Investments at Berkeley, Fintech at Berkeley, Space Technologies at Cal, Berkeley Math Tournament

Experience

University of Arizona Tucson, AZ

Research Intern *May 2020 – Oct. 2020*

- Utilized C to develop and improve the algorithms responsible for interpolating the temperature data of different locations within a ramjet engine in the Computational Plasma and Reactive Flow Laboratory
- Improved the efficiency of pre-existing algorithms by over 3 times and reduced the memory usage by 2 times

University of California Santa Cruz Santa Cruz, CA

Research Intern *June 2019 – Aug. 2019*

- Developed Diarytown, a diary-based program that analyzes patterns in the user's diary entries over time using Javascript, HTML, and CSS
- Presented the Diarytown project at the Science Internship Program Symposium to an audience of over 100

Projects

Crypto Trading Bot *January 2022*

- Utilized the Yahoo Finance API as well as the Alpaca Markets API to develop a fully functioning program that primarily trades Ethereum in Python
- Developed the algorithm behind the bot that utilized evolutionary algorithms to make future predictions on the price of various commodities and time trades

Space Technologies at Cal *Sep 2021 - Present*

- Programmed the GPS tracking system for the High Altitude Balloon project using Python
- Developed the frontend as well as backend for the website showing the position of the balloon using the Planet Maps API, Javascript, HTML, and CSS

Gitlet *November 2021*

- Implemented a git-like version control system from scratch that mimic's git's hash based storage system utilizing Java
- Functionality includes methods to add, remove, commit, reset, branch, and merge files

Smart Stove Monitor *2017 - 2020*

- Implemented an affordable, mass-producible, microcontroller-based technology that predicts a house fire before it occurs and alerts the user with a text notification utilizing C
- Awarded a utility patent for the design (Patent no: 10950109)

Honors and Awards

- Utility Patent Holder (Patent no: 10950109)
- 5x American Invitational Mathematics Exam Qualifier
- USA Physics Olympiad Semifinalist (Top 400 in the US)
- USA Biology Olympiad Semifinalist (Top 400 in the US)

Skills

- **Programming Languages**: C++, C, Python, Java, SQL, Scheme, Javascript, HTML, CSS
- **Tools**: Git, Numpy, Pandas, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, LaTeX