

Bryan Xu

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Education

University of California, Santa Barbara

Expected Graduation: 06/2022

Bachelor of Science in **Computer Science**, Honors Program | GPA: 3.87

Relevant Upper Division Coursework: Data Structures & Algorithms, Advanced Applications Programming, Intro to Computational Science, Automata & Formal Languages, Probability & Statistics I/II, Artificial Intelligence, Operating Systems, Computer Architecture, Teaching Methods in CS

Project Experience

Coronavirus Survival Classifier | C++

02/2021-02/2021

- Implemented a Naive Bayes Classifier to predict whether a person with the given symptoms would survive
- Trained on a public dataset of 275,000+ test cases, with an unbalanced ratio of 94:6 negative cases. Reached 88% accuracy and < 2 second running time on a sample validation set of 23,000+ test cases (72:28 negative)

Slack Bot | Java & JavaScript

11/2020 - 12/2020

- Performed code reviews for team epic in CMPSC156, a web application development course focused on teaching industry practices. Worked on a class legacy project, implementing CRUD operations for CSV files, and Slash Commands to be compatible with a Slack workspace using Java, Git/Github, and CI/CD testing
- Contributed to creating a Spring Boot backend and React frontend. Developed extensive testing for 100% code coverage for all pull requests, and oversaw that deadlines were met

Discord Icebreaker Bot | JavaScript

01/2021-01/2021

- Created a discord bot as a project during SB Hacks VII, primarily using Node.js, Discord.js, and Heroku.
- Implemented 10+ commands, including several APIs and icebreaker games. Currently running in 50~ servers.
- Finalist in the "Best Beginner Hack" category

Leadership Experience

Undergraduate Learning Assistant, CMPSC16

01/2021 - present

- Mentor students in C++, GDB, and computer organization in CMPSC16, an intermediate engineering course for freshmen students focused on developing core programming skills
- Hold weekly office hours and ad hoc help sessions for students requiring assistance outside of lecture hours
- Review and update weekly lab assignments and homework assignments to ensure coherence

Founder/President, UCSB Badminton Club

09/2018 - present

- Practiced large project management and organizational skills by hosting UCSB's first annual collegiate badminton tournament. Consulted multiple departments and organized committees to distribute workload
- Help manage \$2,000 club budget. Invested \$1,000 into hosting a regional-scale badminton tournament, returning 150% (\$1500) over the span of one month
- Organize transportation and oversee team trips to other universities and cities, including UCLA, UCSD and Cal Poly Pomona, reducing costs (40%) per trip by comparing multiple housing and travel plans
- Took the initiative to motivate, interview, and organize individuals to establish UCSB's first badminton club, recruiting 70 students over two years

Secretary, Taiwanese American Students Association

05/2020 - present

- Developed project management skills by planning and hosting UCSB's largest virtual multi-day cultural club fair, with over 15 cultural clubs and 300 students in attendance
- Proposed and implemented a new organization system for meeting minutes that includes using an updating index. Regulate discussions and record meeting minutes to keep team on schedule
- Manage a running schedule for all TASA events, and update team Google Calendar every week with meeting times, locations, and relevant Zoom links. Trained shadows in fundamentals of project organization

Skills

Programming Languages: C++, Java, JavaScript, C, Python, R, SQL, MIPS Assembly Language

Other Technologies/Skills: Spring Boot, React, HTML, CSS, LaTeX, Git, GitHub, Heroku, Node.js, Discord.js, VS Code, agile methodology, CI/CD systems, Adobe Illustrator, Adobe Indesign, Adobe Photoshop, Microsoft Office