ARYAN SURI

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EDUCATION and AWARDS

University of California, Davis   September 2018 - June 2022
- Chemical Engineering B.S. (ABET)
- Dean's List Fall 2020 & 2021
- GPA 3.64.
- Won Best Biochemical Engineering Design

RELATED COURSES

- Mathematical Python Methods
- MATLAB and Simulink design
- Process Dynamics and Control
- Calculus, Physics, Heat/Mass Transfer
- Tutored for Thermodynamics and Calculus

SKILLS

- Fluent (3 years) in TypeScript, HTML/CSS/JSON.
- Proficient (1 yr.) in Python (Data analysis), and Excel.
- Proficient (1 yr.) in Java and Rust development.
- 2 years in Chemical engineering research labs
- Active production of Technical Memos, documentation, and PFDS.

EXPERIENCE

UC Davis Chemical Engineering Department, *Davis, California*   January 2022 – June 2022
Senior Design: Techno-Economic Analysis of Therapeutic Production facility
- Collaborated with a team of 4 students and 4 industry mentors to develop a human serum albumin production facility utilizing transgenic Lemna Minor.
- Developed 10+ unit SuperPro™ simulation with industry-standard production and purification. Verified using myriad chemical engineering equations, to ensure accuracy.
- Wrote 3 Technical Memos and gave 3 Presentations to colleagues and instructors at 3-week progress intervals.
- Co-Authored Techno-Economic analysis of production facility, presenting work at UC Davis Senior Design. Won Best Biochemical Engineering Senior Design Showcase award.

LibreTexts, Davis, California   October 2019 – December 2021
Front-End Developer
- Created a site sidebar/toolbar with 85+ individual features, which generated 1,000,000 site hits in a month
- Worked with a team of 4 full-stack student engineers to implement textbook/course creation software for professors with Python and Kolibri's offline servers.
- Delivered on a time-sensitive engineering unit converter (with over 100 relevant conversions) project, coded using ReactJS.
- Coordinated as project architect for 3 consumer-side development projects, utilizing git and npm, and troubleshooted 50+ significant bugs in my own and colleague's work.

Sacramento State University, Sacramento, California   May 2019 – July 2019
Teaching Assistant for Academic Talent Search (ATS)
- Presented and coordinated two 2-week engineering curriculums for the ATS robotics summer course for 60 middle school students. Led to an exceptional (>90%) TA performance review.
- Prepared 3 different teaching paths for helping certain types of students. Those who preferred: more collaborative work, free physical learning, or direct teacher instruction were allowed to choose; this led to a higher average course grade than the previous year.

FRC Robotics Team 295, Granite Bay, California   August 2015 – May 2018
Mechanical Integration and Software Lead
- Collaborated with over 50 high-school colleagues and 5 adult supervisors, managing a $5000 annual budget.
- Developed 10+ autonomous programs in Java using PID feedback loops, OpenCV, and Raspberry PI, leading to +34 points in the competition.
- Manufactured 60+ pound robot, co-designing 1 RaspPI system, 4 pneumatic systems, and a chassis (4 CIM).