**ARYAN SURI**

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**EDUCATION and AWARDS**

University of California, Davis September 2018 - June 2022

* Biochemical Engineering B.S. (ABET)
* GPA 3.64.
* Dean’s List Fall 2020 & 2021
* Won Best Biochemical Engineering Design

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| **RELATED COURSES** | **SKILLS** |
| Mathematical Python Methods  * MATLAB and Simulink design * Chemical Reaction Engineering, ASPEN * Organic Chemistry, NMR analysis * Process Dynamics and SuperPro™ Design * Calculus, Physics, Heat/Mass Transfer * Tutored for Thermodynamics and Calculus | * 3 years’ experience in TypeScript, HTML/CSS/JSON, * 1 years in Python, data analysis, and Excel Macros * Active production of Technical Memos, HAZOPs, and Process Flow Diagrams (SAChe certification) * 2 years of experience in Chemical engineering labs * Designed and ran Gel electrophoresis, Western Blot, Fermentation, Chromatography processes. |

**WORK 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 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).