Sri Chandrasekaran

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Education

University of California, Berkeley — Berkeley, CA

Bachelor of Arts in Data Science and Applied Math — *May 2026*

Relevant Coursework: *Data Structures, Algorithms, Linear Algebra, Optimization Models, Signal Processing, Real Analysis, Data Science, Structure of Computer Programs, Discrete Mathematics and Probability*

Experience

Undergraduate Researcher — May 2023 – Present

Berkeley NetSys Lab — *Berkeley, CA*

- Collaborating with PhD candidate Sarah McClure to apply advanced modeling techniques, including time-series analysis and machine learning to develop predictive models of network congestion dynamics using Python and R
- Utilize 50+ simulations to derive insights and inform the development of congestion control strategies, enhancing network efficiency through data-driven modeling approaches
- Contribute to the design and execution of experiments evaluating congestion control algorithms, refining models to accurately forecast network congestion patterns and proactively mitigate disruptions

Undergraduate Researcher — Jan 2024 – Present

UCSF - Larson Advanced Imaging — *San Francisco, CA*

- Collaborate with interdisciplinary team members to utilize Python in developing and analyzing synthetic hyperpolarized 13C data for training machine learning models, focusing on brain and/or heart imaging
- Implement advanced image analysis techniques to process and interpret medical images, contributing to the refinement of machine learning algorithms aimed at improving diagnostic accuracy and treatment planning.

Software Engineer Intern — May 2023 – Aug 2023

Neuroleap Corp — *San Jose, CA*

- Collaborated with the frontend development team, contributing to the design and implementation of user interface components aimed at enhancing user engagement and satisfaction
- Integrated advanced custom PDF generation functionality through the use of Axios; this enhancement is anticipated to accelerate the report creation process and ensures users receive real-time comprehensive insights
- Developed a React-based data processing and aggregation system, integrating APIs for autism diagnosis; streamlined data processing time by 50% accelerating report generation and enhancing overall operational efficiency

Chief Executive Officer & Co-Founder — July 2020 – Present

STEMz Learning — *Sacramento, CA*

- Leading virtual classes for 40+ elementary school students and expanding our reach through over 20 classes, both online and in person, enriching the educational experience for a diverse student body
- Conducting weekly meetings, determining upcoming plans, ensuring alignment, and delegating tasks for effective project execution; team size has grown from 3 to 25 members
- Developing and curating a diverse STEM curriculum spanning 12+ subject areas, including Circuits, Basics of Coding, and more, contributing to over 700 students' growth and understanding

Projects

Build Your Own World | *Java* — April 2023 – May 2023

- Designed and implemented a 2D tile-based world exploration engine that randomly generates a graphical tile-based world with 15-30 rooms using a tile renderer, allowing users to move around and interact with world objects
- Implemented a GUI to display information on where users are located in the world, other key characteristics and a light source that can be turned on and off using the keyboard; provided user interface to save, quit and reload their worlds
- Effectively managed the complexity of building a large system on building world exploration engine through better software engineering practices

Early Diagnosis of Parkinson's Disease with SVM Modeling | *Python* — Sept 2020 – March 2021

- Developed Support Vector Machine (SVM) classifier models through various research methods using extracted voice parameters; developed a diagnosis software to make earlier diagnosis
- Analyzed the accuracy rate among various methods to discriminate between healthy patients and patients with Parkinson's Disease

Technical Skills

Languages:Python, Java, R, JavaScript, SQL, HTML/CSS, MATLAB

Frameworks Technologies: React, TypeScript, Node.js, Flask, Git, NumPy, Matplotlib, pandas