

Taran Sooranahalli

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[Website](#) | [LinkedIn](#)

EDUCATION

University of Illinois at Urbana-Champaign, Champaign, Illinois

Bachelor of Science in **Mathematics & Computer Science**

Anticipated 05/26

Cumulative & Major GPA: **3.77/4.00 & 3.65/4.00**

Relevant Coursework: Data Structures, Computer Architecture, Graph Theory, Software Design, Numerical Methods, Applied Linear Algebra, Fundamental Mathematics, Intro to Differential Equations, Multivariable Calculus, Discrete Structures, Intro to Computer Science I & II

RELEVANT EXPERIENCE

Thermo Fischer Scientific, Fort Collins, Colorado

Software Developer Intern (Intern II)

06/2025 – 08/2025

- Developed a Windows program to integrate backend Python processes using WPF and UWP principles and C#/.NET frameworks
- Utilized machine learning algorithms to add functionality in software utilized for visualizing data output from Bigfoot and Xenith (Analytical Machines)
- Worked on data analysis of flow cytometry outputs for both company and clientele use to improve analytical processes in the laboratory
- Helped with product line development under the Protein and Cell Analysis department and future software development/program releases

Standard BioTools Inc., South San Francisco, California

Software Engineer and Data Scientist Intern

05/2024 – 08/2024

- Developed Python scripts to automate data extraction and analysis of sample data for private lab clientele and for improved processing through company provided software
- Utilized machine learning algorithms to enhance clustering and segmentation of tissue sample data, improving the accuracy of analytics in MCD SmartViewer (a free software provided by Standard BioTools)
- Implemented Ranorex automation framework to build comprehensive test suites, reducing manual testing time and providing consistent identification of defects
- Spearheaded the UX improvement process by creating tickets and a timeline for UI changes to align with user expectations and ensure that features will be ready for future releases
- Developed new data visualization features geared toward improving data comprehension to reinforce the accuracy of the clustering methods used

Varsity Tutors, Digital Platform

Tutor

05/2023 – Present

- Instructor for all difficulties of subjects ranging from elementary to graduate level courses
- Coordinated with multiple clients to maximize improvement in specified timelines by creating rigorous lesson plans
- Notable topics: Calculus I-III, Algebra, Trigonometry, Statistics, Chemistry, and SAT/ACT Prep

LEADERSHIP

Engineering Team, Head Engineer and Lead Developer

08/2022 – 08/2023

- Designed, manufactured, and programmed prototypes geared for enhancing pedestrian safety through the integration of sensor and wireless microcontroller technology in high-traffic urban environments
- Achieved recognition as a state winner in the Samsung Solve for Tomorrow competition (2023), earning a \$15,000 prize for the high school engineering department to invest in additional resources and equipment to support STEM education
- Demonstrated strong technical skills and design thinking abilities by placing second at the state-level Skills USA Engineering Technology Design competition (2023)

SKILLS

Languages: English (Native), Kannada (Native), Spanish (Working Proficiency)

Computer: Proficient in Python, C, C++, C#, MIPS Assembly, Go, Java, JavaScript, SQL, Inventor, Blender, Adobe Suite, Microsoft Suite

Community: Volunteer at Oak Trace Nursing Home (200+ hours), Volunteer at Good Samaritan Hospital Cardiac Unit (70+ hours)