

Siddhardha (Sid) Basu

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EDUCATION

The Pennsylvania State University: Schreyer Honors College

GPA: 3.8

Bachelor of Engineering in Computer Science and Minor in Cybersecurity Computational Foundations

ORGANIZATIONS

Penn State Global Engineering Brigades (WASH) • Science Olympiad Alumni at Penn State (SOAPS) • Penn State Association For Computing Machinery (ACM) Penn State International Collegiate Programming Contest (ICPC)

RELEVANT COURSEWORK

Data Structures and Algorithms • Discrete Math • Systems Programming • Artificial Intelligence With Python • Computer Organization and Design • Programming Language Concepts

TECHNICAL SKILLS

Java • Python • C++ • Javascript • R • AWS Cloud Computing • Postman • Data Analysis • Databases • Android Studio • Arduino, Raspberry Pi Programming • Linux • Bash • Node.js • NumPy • OpenCV • Tensorflow • Keras • REST APIs • Microservices • Gradle • Selenium

EXPERIENCE

Schreyer Honors College at Penn State — State College, Pennsylvania

May 2023—Present

Certified Peer Educator

- Acted as a mentor to newly admitted Schreyer Scholars during SHO Time (Schreyer Honors Orientation), held before the beginning of the fall semester
- Conducted the course, New Scholar Experience: Foundations of Scholar Success (LA 197), which helps scholars build key skills needed for success and a productive community through weekly discussions

TSYS, Global Payments Inc. — Atlanta, Georgia

June 2023—August 2023

Software Engineering Intern, Commercial Cloud Migration Team

- Implemented robust security measures to protect sensitive information such as account numbers and cards numbers processed through hundreds of API endpoints in the commercial app, CentreSuite
- Created a Java program to accelerate the testing process for the API endpoints and drastically decrease the duration of the procedure from hours of repetitive work to seconds. By automatically generating hundreds of Postman calls, my application streamlined the process for the cloud migration team
- Gained experience with the utilization of multiple development tools, such as employing Bitbucket as a version control system, operating Jira for issue tracking, leveraging Jenkins for continuous integration and build processes, and Argo for direct deployment from Git repositories to Kubernetes resources, and various AWS protocols, applications, and architecture

LEADERSHIP

DevPSU Learning Captain, Penn State Association For Computing Machinery

November 2023—Present

- Facilitated hands-on, weekly learning sessions in the creation of computer science projects intended for members to understand concepts of software development and to build a portfolio

Treasurer, Penn State Global Engineering Brigades

June 2023—Present

- Engineered a sustainable water system for an international rural community in Choluteca, Honduras as part of 18-student team
- Proposed a feasible plan and budget that will help provide clean, accessible water to 400 residents over the next 20 years

Secretary, Science Olympiad Alumni at Penn State (SOAPS)

August 2022—Present

- Organized inter-state STEM tournament for approximately 400 high-school students, where participants are evaluated by a variety of theory tests and engineering challenges
- Served as an Executive Board member responsible for club correspondence and tournament logistics