

EXPERIENCE

- **DNV** Mechanicsburg, PA
Software Development Intern *May 2022 - Present*
 - **Solver Tools Development:** Develop and prototype software for DNV's Synergi Gas simulation tool, used by companies around the world
 - **Algorithm Design:** Created and maintained high-level algorithms and programs using C# and Python
 - **Automation/Scripting:** Automated processes and wrote scripting algorithms to decrease man hours by 100x.
 - **UI Design:** Designed and worked on front end UI design for custom developed Windows applications
 - **GIS Web Mapping:** Created web mapping and increased data visualization (using QGIS) of major gas pipeline models
 - **Code Base Maintenance:** Participate in design and code reviews, and performance tests in a continuous delivery environment
- **The Pennsylvania State University** Harrisburg, PA
IT Support Specialist *September 2020 - May 2022*
 - **Customer Support:** Provided IT Support for the students and faculty of the University, with a customer-facing role
 - **Troubleshooting:** Used critical thinking to troubleshoot, diagnose, and repair computers and other classroom tools
 - **Ticket Management:** Completed appropriate ticket and task tracking and routing in ServiceNow
 - **Documentation:** Wrote technical documentation, KB articles, and FAQ's on a variety of systems and programs
- **EdKonnnect Academy** Remote, USA
Computer Science Tutor/Freelance Contractor *July 2022 - Present*
SAT Math Private Tutor *December 2020 - August 2021*
 - **Private Tutoring:** Provided private (one-on-one and group) SAT math and Java tutoring sessions
 - **College Application Help:** Coached and advised on the college application process, through webinars and one-on-one sessions
 - **Material Development:** Designed and developed curriculum, worksheets and sample question documentation

PROJECTS

- **Music Store (Web Application)**
 - Prototyped and developed a web-based Spring Boot application that implemented CRUD elements
 - Web-based music store verified user authentication to update/delete music store elements
 - Utilized Model View Controller (MVC) to display and modify data elements
 - **Technologies:** Java, Spring Boot, Gradle, HTML/CSS, Bootstrap

SKILLS

- **Programming:** Java, Python, C#, C++, C, HTML, CSS, SQL, L^AT_EX
- **Tools:** Git/Github, Bootstrap, Visual Studio, CLion, IntelliJ, PyCharm, Spyder
- **Libraries:** Streamlit, Pandas, Matplotlib, Seaborn, Plotly
- Strong C++/Java object oriented and data structure background
- Experience with Linux Kernel, GNU/Linux and Windows operating systems
- Strong leadership, communication, and collaboration skills
- **Languages:** English, Tamil, Hindi

EDUCATION

- **The Pennsylvania State University** State College, PA
Current GPA: 3.76 *June 2020 - Present*
 - Bachelor of Science in Computer Science
 - Minor in Information Science and Technology