

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
SAT Math Private Tutor

July 2022 - Present
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
- **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