Sahas Makhadhevan

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EDUCATION

- **The Pennsylvania State University** — State College, PA
  Current GPA: 3.7 — *June 2020 - May 2024*
  - Bachelor of Science in Computer Science
  - Minor in Information Science and Technology

EXPERIENCE

- **Peraton** — Blacksburg, VA
  Software Engineer Intern — *June 2023 - Present*
  - **Salesforce Development**: Created custom integrations and solutions using Apex and MuleSoft to manage user data effectively.
  - Collaborated with a cross-functional team to successfully complete all sprints, consistently delivering timely high-quality solutions.
  - Attained Copado certification, demonstrating proficiency in Salesforce release management and DevOps practices.

- **DNV** — Mechanicsburg, PA
  Pipeline Integrity Software Development Intern — *January 2023 - May 2023*
  - **Front-End Web Development**: Created and updated Flask applications that work together with Synergi Pipeline. Updated existing applications to match new capabilities, as well as implemented standardized templating across the board.
  - **Code Base Maintenance**: Participate in design and code reviews, and performance tests in a continuous delivery environment
  - **Languages/Tools**: Python, JavaScript, Flask, Requests, HTML/CSS

  Pipeline Hydraulics Software Development Intern — *May 2022-December 2022*
  - **Solver Tools Development**: Developed and prototyped 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

PROJECTS

- **Plant Dashboard**
  - Worked as a team to develop the winning dashboard for a HackPSU challenge
  - Created a platform-agnostic web-based dashboard with real-time information updates
  - Implemented basic time-series forecasting to predict data irregularities
  - **Technologies**: Python, Streamlit, Pandas, ARIMA Modeling

- **Online Music Store**
  - 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

SKILLS

- **Languages**: Python, Java, JavaScript, C#, C++, C, HTML/CSS, SQL, Verilog, Apex, MuleSoft
- **Frameworks/Libraries**: React, Express.js, Springboot, Flask, Streamlit
- Strong object oriented, algorithm and data structure background
- Experience with Linux Kernel, GNU/Linux, and Bash scripting
- Strong leadership, communication, and collaboration skills