

Arjun Venat

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Third-Year Undergraduate student at Worcester Polytechnic Institute with a keen interest in Software Engineering, Data Science, and Operations Research.

EXPERIENCE

Worcester Polytechnic Institute, Worcester, MA

MTC Scheduler (Dec 2023 – current)

- A full-stack application developed for the university's Math Tutoring Center using React, Python, and Flask, and deployed to WPI's Linux server
- Built a preference-based matching algorithm to schedule teaching assistants into shifts, which is projected to save the math department 14 hours of administrative work per semester

Data Science REU Student (May 2023 – Aug 2023)

- Worked on an NSF-funded research program focused on simulating the user experience of non-profit organizations
- Used Python to build a simulation of credit redistribution process among non-profits participating in SWAP, a platform for exchanging resources

Persistent Systems, Bridgewater, NJ

Summer Intern (Jun 2022 – Jul 2022)

- Developed an application to push Identity and Access Management (IAM) data logs from AWS DynamoDB to a React-based front-end using AWS Lambda

PROJECTS

Software Engineering project – Brigham and Women's Hospital, Boston (March 2024 – current)

- Collaboration between WPI and the hospital to build a full-stack application for hospital kiosks which is used by guests for navigation information as well as hospital staff for service requests
- Tech stack used is React, Tailwind CSS, Prisma ORM and deployed on AWS
- Updates to the backend database are made using REST API calls, and Auth0 is used for authentication and secure access

Strætó bs (Iceland's public transportation system) – Reykjavik, Iceland

Interactive Qualifying Project (Aug 2023 – Oct 2023)

- Analysis of bus rider demographics and targeted bus routes to create informational posters and policy recommendations for the organization
- Submitted final report on policy recommendations to achieve UN Sustainable Development Goals (SDGs) 3, 4 and 5: health, education and gender equality

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, Typescript

Software Framework: React.js, Tailwind CSS, Flask, AWS, Prisma ORM, REST APIs

Development Tools: Android Studio, Git, Docker

EDUCATION

BS in Computer Science and
Data Science

Worcester Polytechnic Institute,
Worcester, MA

Aug 2021 - May 2025 (expected)

Current GPA: 3.96

RELEVANT COURSEWORK

- Discrete Mathematics
- Object Oriented Programming
- Modeling and Data Analysis
- Machine Learning
- Intro to Artificial Intelligence
- Analysis of Algorithms
- Software Engineering
- Operating Systems
- Database Systems

LEADERSHIP

- President - Association for Computing Machinery (ACM) - WPI Chapter
- Upsilon Pi Epsilon - Computer Science Honors Society
- Undergrad Representative - Data Science Club council
- Event Planning Committee - WPI Hackathon (GoatHacks23)