Varun Vedula

varun.vedula@gmail.com | 309-269-2633 | www.linkedin.com/in/varunvedula | US Citizen

EDUCATION

Georgia Institute of Technology | Atlanta, Georgia   August 2019 – **December 2023**
B.S. Computer Science | Concentrations: Intelligence and Devices   *GPA: 3.94*
- **Relevant Coursework:** Data Structures and Algorithms, AI, Computer Architecture, Robot Perception, Digital Design

PROFESSIONAL EXPERIENCE

Amazon Robotics   Westborough, Massachusetts
SDE Intern [Java, AWS Lambda]   May 2022 – August 2022
- Simultaneously moved 5 nonautonomous robots using my team's autonomous fleet management software.
- Demonstrated that our fleet management tool can be the future of orchestrating movement on autonomous and nonautonomous robots.

SDE Intern [Python, Flask, Javascript, React, Docker, AWS ECR, AWS S3]   May 2023 – August 2023
- Contributed to a new computer vision system with the potential to expedite every barcode scanning process in warehouses by ~1 second, resulting in an estimated cost savings of $0.6 billion annually for Amazon.
- Researched, designed, and built a full-stack web app for camera calibration validation that livestreams live video.

StartProto   Atlanta, Georgia
Software Engineer [Python, Flask, MongoDB, AWS S3, AWS Cloudwatch]   December 2021 – May 2022
- Worked independently as 1 of 4 developers at a startup with a 7-million-dollar valuation to create the initial product, a manufacturing engineering application for machine shops to increase their capacity.
- Directed the team as the Scrum Master and engineered the foundational data structures and algorithms for the backend.

Software Engineer [Python, Flask, MongoDB, AWS S3]   January 2023 – May 2023
- Continued developing backend routes to accommodate growing our customer base of over 15 machine shops..
- Led effort to integrate with the 3rd party Intuit Quickbooks API after adjusting data models of production data safely.

Microsoft   Redmond, Washington
Software Engineering Intern [C#]   May 2021 – August 2021
- Overhauled Cumulus, a tool in the Azure Compute group that provides validation testing for production workflows.
- Designed an API that borrows production nodes from Azure databases to run tests before code is released.
- Consulted with other teams and their packages to introduce compatibility with Cumulus, lowering severities by 30%.

Spaceworks Enterprises   Atlanta, Georgia
Software Developer Intern [Python, Java, C]   January 2021 – May 2021
- Implemented a GUI for flight engineers to safely pressure test valves and sensors on a rocket.
- Coded on a variety of projects including software for small satellites, optimization programs for rocket engine software, and scripts for chemistry and physics analysis on rockets.

John Deere   Urbandale, Iowa
Product Engineering Intern [Python, Jenkins, Squish]   May 2020 – August 2020
- Converted automated testing scripts for John Deere's 4640 Universal Display from Python 2.7 to Python 3.6.
- Exceeded expectations by converting over 50% of scripts to facilitate a successful migration.

PROJECTS

Create-X Capstone Project [Solidworks]   Atlanta, Georgia
- Created an invention that reduces pollution and cleanup by subcontractors for a popular insulation system called EIFS.
- Designed in our Capstone Class and advanced to compete in the Inventure Prize competition.

Klaus Startup Challenge [Figma]   Atlanta, Georgia
- Proposed an enterprise resource management software for general management construction companies to coordinate with subcontractors and eliminate delays on construction projects.
- Won 2nd place against over 20 teams and received a $50,000 prize for 10% to value the startup at $500,000.

SKILLS AND INTERESTS

Coding Languages: Python, Java, Javascript, Typescript, C++, C#, C, Git
Technical Tools and Frameworks: Docker, AWS, MongoDB, Flask, React, Jenkins, Solidworks, Figma, Sketch
Interests: Traveling, Startup Culture, Arduino, Robotics, Volunteering, Outdoor Adventures, Puzzles