

Visvam Rajesh

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SKILLS

Programming Technologies	Python, C, C++, Java, JavaScript, TypeScript, HTML, CSS, Rust, C# React, Bootstrap, Node.js, Next.js, MongoDB, Raylib, Numpy, Scikit-Learn, Jupyter, ROS 2, Linux
Languages	English, Tamil, French

EDUCATION

2025 - 2028	Carnegie Mellon University	(GPA: 4.0/4.0) BS Computer Science & Robotics Selected Coursework: Introduction to Computer Systems, Great Practical Ideas for Computer Scientists, Principles of Imperative Computation
2021 - 2025	Hunterdon Central Regional High School	(WGPA: 4.43/5.00) High School Diploma Honors: Honor Roll, National Merit Scholar Selected Coursework: AP Computer Science, AP Calculus ABC, Honors Linear Algebra, AP Physics C, Honors Discrete Math

WORK EXPERIENCE

ScottyLabs	Sept 2025 - Present
Software Engineer	
Working on CMU Courses website backend. Developing student schedule creation heuristic. Using Rust and Typescript. Over 5k users/wk on the site.	
Carnegie Mellon Racing	Sept 2026 - Present
Driverless Path-Planning Developer	
Building SLAM and Trajectory algorithms for an all-electric race-car using C++, Python, and ROS 2.	
Visra Solutions	June 2024 - Aug 2024
Software Developer	
Worked on modular data displays in React. Used SciKit Learn, Numpy, Pandas, Matplotlib to train models and visualize data. Used AWS instances to run tests and programs.	
The Daleks, FIRST Robotics Competition Team 3637	Sept 2021 - Jun 2025
President (June 2024 – June 2025), Programming Captain (May 2023 - June 2024)	
– Just under 6 weeks to design, build, and program a robot along with my peers to compete.	
– Won Montgomery District Event; Qualified for world championships in Houston, Texas; Received the FIRST Impact Award, the most prestigious award available in competition.	
– Programmed in C++ and Python; Worked on perception and path-planning, LiDAR using ROS 2.	

PROJECTS

Password Manager (Link)	July 2025
Created encrypted password database using Fernet encryption keys. Used Textual to create a TUI for an interactive user experience. Written in Python.	

PUBLICATIONS

Rajesh, Visvam and Chase Q. Wu (2024). “An Extension of Pathfinding Algorithms for Randomly Determined Speeds”. In: <i>2024 IEEE International Performance, Computing, and Communications Conference (IPCCC)</i> , pp. 1–8. DOI: 10.1109/IPCCC59868.2024.10850316 .	
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