

# Siddharth Paul

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## Education

<b>Rutgers University</b> B.S. in Computer Science   B.S. in Physics   Minor in Mathematics	<b>September 2023 - May 2027</b>
<b>Relevant Coursework:</b> Data Structures & Algorithms, Discrete Mathematics, Linear Algebra, Multivariable Calculus, Differential Equations	
<b>Activities:</b> IEEE-VEXU Robotics (Build Lead), Undergraduate Physics Research, Hackathon Competitor (3× Winner)	

## Experience

<b>Iconectiv Ericsson</b> Software Engineering Intern	<b>June 2025 - August 2025</b> Bridgewater, NJ
<ul style="list-style-type: none"><li>Architected Python microservices to ingest and visualize system telemetry, reducing workflow runtimes by 90% and broadening data access for stakeholders.</li><li>Orchestrated integrations with Tenable, GitHub, and lifecycle APIs, enabling real-time cybersecurity insights for 15+ internal teams.</li><li>Streamlined deployment reliability by designing CI/CD pipelines with Jenkins and AWS CodeBuild, cutting nightly build failures by 30%.</li><li>Developed a searchable VM inventory covering 100+ assets, accelerating detection and retirement of outdated infrastructure.</li></ul>	
<b>Iconectiv Ericsson</b> Software Development Intern	<b>May 2024 - August 2024</b> Bridgewater, NJ
<ul style="list-style-type: none"><li>Created a DevOps automation platform to monitor 200+ enterprise apps, eliminating manual dependency audits via continuous tracking.</li><li>Accelerated security patching cycles from weeks to hours by engineering backend Python modules for automated updates.</li><li>Launched an interactive Ruby on Rails + AngularJS dashboard suite with real-time alerts and filtering, driving proactive maintenance.</li><li>Constructed a metadata processing engine for 1,000+ GitHub repositories, powering 100+ live dashboards used by engineering teams.</li></ul>	

## Projects & Leadership

<b>Myndful – AI Mental Health Chatbot</b> Chief Technical Officer	<b>2022 – 2025</b>
<ul style="list-style-type: none"><li>Co-founded and led engineering for an AI startup serving 6,000+ monthly users across 5+ schools.</li><li>Architected full-stack systems (React, FastAPI, TensorFlow, AWS EC2) with scalable NLP pipelines for semantic retrieval and deep text classification.</li><li>Achieved adoption and recognition through school deployments, 3 hackathon wins, and presentations at 2 national education conferences.</li></ul>	
<b>Statistical Arbitrage Simulator</b>	<b>2025</b>
<ul style="list-style-type: none"><li>Engineered a modular Python backtesting framework with pluggable components for data ingestion, signal generation, and risk evaluation across equities, ETFs, and crypto.</li><li>Built interactive Streamlit dashboards (P&amp;L, Sharpe, drawdown) to enable real-time strategy tuning and visual debugging.</li><li>Optimized parameter search workflows, reducing backtest runtime by 40% and accelerating evaluation of 50+ configurations.</li></ul>	

## Awards

<b>VEX Robotics World Championship – Top 25 Global Finish</b>	<b>2025</b>
Led IEEE-VEXU Build Team in developing real-time motion control systems and validating PID algorithms with TDD, contributing to a top 25 global ranking.	
<b>HackRU 2024 – First Place</b>	<b>2024</b>
Built <i>Holobrain</i> , an AR neuroanatomy learning tool in Unity + C#, integrating TensorFlow Lite for real-time 3D visualization; recognized as best overall project.	
<b>Congressional App Challenge Winner</b>	<b>2022</b>
Awarded for <i>Myndful</i> , an AI-powered chatbot delivering personalized mental health resources; recognized at the federal level for impact and innovation.	

## Technical Skills

- Languages:** Python, C++, JavaScript/TypeScript, Java, SQL, Ruby, HTML/CSS
- Frameworks & Libraries:** React, Redux, Node.js, Express, FastAPI, TensorFlow, Streamlit
- Cloud & DevOps:** AWS (EC2, S3, Lambda), Jenkins, GitHub Actions, CI/CD
- Tools:** Git, Linux, Jira
- Other:** Web Security, Unity