Siddharth Paul

848-229-5142a | siduserpaul@gmail.com | github.com/sidp24 | linkedin.com/in/siddharth-paul24/

Education

Rutgers University September 2023 - May 2027
B.S. in Computer Science | B.S. in Physics | Minor in Mathematics

Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Linear Algebra, Multivariable Calculus, Differential Equations

Activities: IEEE-VEXU Robotics (Build Lead), Undergraduate Physics Research, Hackathon Competitor (3× Winner)

Experience

Iconectiv Ericsson June 2025 - August 2025
Software Engineering Intern Bridgewater, NJ

- Built and shipped Python microservices to ingest and visualize system telemetry, reducing workflow runtimes by 20% and increasing engineering throughput by 30%.
- Engineered integrations with Tenable, GitHub, and lifecycle APIs, enabling real-time cybersecurity insights for 5+ internal teams.
- Streamlined deployment reliability by optimizing CI/CD pipelines with Jenkins and AWS CodeBuild, cutting build failures by 30%.
- Developed a searchable VM inventory covering 100+ assets, accelerating detection and retirement of outdated infrastructure.

Iconectiv Ericsson May 2024 - August 2024
Software Development Intern Bridgewater, NJ

- Created a DevOps platform to monitor 200+ enterprise apps, eliminating manual dependency audits via continuous tracking.
- Engineered backend Python modules for computerized updates, which automated security patching cycles from weeks to hours.
- Launched an interactive Ruby on Rails + AngularJS dashboard suite with real-time alerts and filtering, driving proactive maintenance.
- Developed and shipped a metadata processing engine for 1,000+ GitHub repositories, powering 100+ live dashboards used by engineering teams.

Projects & Leadership

Myndful – AI Mental Health Chatbot (Winner of 2022 Congressional App Challenge) 2022 - 2025
Chief Technical Officer

- Co-founded and led engineering for an AI startup serving 6,000+ monthly users across 5+ schools.
- Architected full-stack systems (React, FastAPI, TensorFlow, AWS EC2) with scalable NLP pipelines for semantic retrieval and deep text classification.
- Achieved adoption and recognition through school deployments, 3 hackathon wins, presentations at 2 national education conferences, and a Congressional Award.

Statistical Arbitrage Simulator 2025

- Engineered a modular Python backtesting framework with pluggable components for data ingestion, signal generation, and risk evaluation across equities, ETFs, and crypto.
- Built interactive Streamlit dashboards (P&L, Sharpe, drawdown) to enable real-time strategy tuning and visual debugging.
- Optimized parameter search workflows, reducing backtest runtime by 40% and accelerating evaluation of 50+ configurations.

Awards

VEX Robotics World Championship – Top 25 Global Finish 2025
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.

HackRU 2024 – First Place 2024
Built *Holobrain*, an AR neuroanatomy learning tool in Unity + C#, integrating TensorFlow Lite for real-time 3D visualization; recognized as best overall project.

Congressional App Challenge Winner 2022
Awarded for *Myndful*, 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