

Suvir Potdar

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SUMMARY

Motivated high school junior with hands-on experience architecting self-hosted infrastructure across virtualization, containerization, and networking. Combines a rigorous STEM foundation with practical software development spanning web and systems domains. Passionate about aerospace engineering, distributed systems, and AI-assisted development workflows.

EDUCATION

South Brunswick High School

Sep 2023 – Jun 2027

South Brunswick, NJ · Current Grade: 11 · Class of 2027

- Pursuing six AP courses concurrently across STEM and humanities disciplines.
- Concurrent studies in AP Calculus BC, AP Statistics, and both branches of AP Physics C (Mechanics & Electricity and Magnetism).

RELEVANT COURSEWORK

AP Calculus BC	AP Statistics	AP Physics C: Mechanics
AP Physics C: E&M	AP Language & Composition	AP Computer Science A

PROJECTS & TECHNICAL WORK

Proxmox Homelab

2023 – Present

Self-Hosted Infrastructure

- Designed and maintain a bare-metal Proxmox hypervisor hosting multiple VMs and LXC containers for media, services, and identity management.
- Deployed a Docker-based media stack including Plex, Jellyfin (with NVIDIA GPU passthrough), qBittorrent, Gluetun VPN, and a Homepage dashboard.
- Self-hosted Authentik as an SSO and identity provider, securing internal services with OAuth2/OIDC and LDAP integrations.
- Configured networking, PUID/PGID/UMASK permission schemes, and persistent volume management using linuxserver Docker images.

GuessThatStat

2025

Web Application · TypeScript

- Built an interactive statistics-guessing web app to help classmates study for the AP Statistics exam, turning practice problems into an engaging game format.
- Designed and deployed a production-ready frontend in TypeScript with real-time feedback, score tracking, and question progression logic.
- Used by peers for AP exam prep, demonstrating ability to ship tools that solve a real and immediate problem.

Grafana Monitoring Stack

2024

Homelab Observability

- Deployed Grafana with integrated data sources across homelab services for real-time system metrics and alerting.

TECHNICAL SKILLS

Infrastructure: Proxmox, Docker, Docker Swarm, Linux, Unraid, Windows Server, Networking

Cloud & DevOps: AWS, Oracle Cloud, Grafana, Authentik, Cloudflare

Databases: PostgreSQL, MongoDB

Programming: Python, Java, JavaScript, TypeScript, HTML5, CSS3

Hardware: PC Building, Troubleshooting, Component Installation

AREAS OF INTEREST

Aerospace Engineering · Distributed Systems & Virtualization · Full-Stack Web Development · AI & Agentic Coding Workflows