

# ANEESHKRISHNA PARTHASARATHY

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## EDUCATION

Purdue University - Honors College

Class of 2027

B.S. Computer Science & Statistics

Minors: Math & Finance

- **Courses:** OOP (Java) · C/Python Programming · Computer Architecture · DSA · Blockchain · Systems Programming
- **Organizations:** Boiler Blockchain · Purdue DOSA · Cricket and Social Outreach · Tamil Sangam Purdue

## EXPERIENCE

Caterpillar Inc. (Purdue Data Mine) | Data Science Researcher

Aug '25 – Present

- Increased Caterpillar's paint material usage tracking efficiency by integrating data sources into a centralized database
- Reduced time to evaluate process improvements by developing a Power BI dashboard that visualized consumer trends
- Minimized unplanned production downtime by 25% by creating a Django-based reporting tool for system anomalies.

Full Send AI Consulting | Founding Engineer

Jul '25 – Present

- Designed Full Send's production chatbot using APIs, React, and Node.js, improving lead response rate by 70%
- Delivered deployable AI agents to clients by packaging LLM workflows in modular frontends with automated setup flows
- Led end-to-end UI/UX revamp of company website, brand, and contact pipeline, increasing engagement time by 300%

PlaytoonIt Inc. | Software Development Intern

Jun – Aug '25

- Reduced bandwidth by 35% by compressing serialized data and implementing delta updates for 50+ concurrent players
- Cut latency spikes by 50% through event-driven architecture and object pooling in Unity, reducing player churn by 15%
- Scaled to 100+ concurrent players by optimizing ECS and netcode, cutting server costs by 30% and packet loss by 25%

Retail Hedging LLC | Software Engineering Intern

Mar – May '25

- Reduced login latency by 50% by optimizing Auth0 flows and lazy-loading components in a React platform
- Secured payment processing by implementing an Auth0-Stripe integration with RS256-signed JWTs
- Eliminated unauthorized feature access by implementing JWT-based role control, improving security by 100%
- Boosted API throughput by replacing polling with a one-time token fetch pipeline using JWT syncing

Purdue CILMAR | Data Science Researcher

Mar – Jun '25

- Modeled sentiment trends across 18,000+ student surveys (U.S./Japan) to track COVID's impact on education and values
- Discovered a 30% increase in intercultural learning metrics post-COVID through longitudinal statistical analysis ( $p < 0.01$ )
- Engineered automated data pipelines (Python/Pandas) for 18k+ survey responses, reducing preprocessing time by 60%

## PROJECTS

[Freelance DAO](#) – Ethereum Platform

Fall '24

- Achieved 99% uptime by designing a fault-tolerant Ethereum freelance platform with decentralized dispute resolution
- Reduced gas costs by 50% via Hardhat-tested smart contracts and optimization checks for dispute resolution workflows

[Vibe](#) – Social Messaging App

Winter '24

- Scaled to 100+ concurrent users by architecting a Java socket-based chat system with thread pooling and prioritized message queues. Improved session reliability by integrating auth, media caching, and load-balanced worker threads

[Portfolio](#) – Personal Website

Spring '25

- Developed a professional portfolio website using Next.js, JavaScript, React, and Tailwind CSS with modular routing
- Designed a fully responsive UI to showcase projects, games, technical skills, and personal brand with impact
- Achieved 100% SEO and 90% accessibility Lighthouse scores via semantic markup and optimized asset loading

[Local Storage Stats](#) – Analytics Dashboard

Summer '25

- Transformed raw student data into real-time insights by engineering a high-performance analytics dashboard with dynamic visualizations and personalized benchmarks. Enabled performance insights, difficulty analysis, and data exports

## TECHNICAL SKILLS

**Languages:** Python · JavaScript/TypeScript · Java · C++ · C · SQL · Go · R · Solidity · HTML/CSS

**Frameworks:** React · Node.js · Next.js · Django · Spring Boot · FastAPI · Express.js · GraphQL · Redux

**Tools:** Git · Docker · AWS/GCP/Azure · Jenkins · Firebase · Linux · MySQL · Pandas · Apache Spark · Jupyter

**Specializations:**

- **Machine Learning:** TensorFlow · PyTorch · Scikit-Learn · XGBoost · Hugging Face
- **Cloud & DevOPS:** CI/CD · Kubernetes · Serverless Architecture · AWS Lambda · Vercel · Terraform · Prometheus
- **Systems & Security:** Distributed Systems · OAuth2.0 · JWT · Database Design · Algorithm Optimization
- **Data & Visualization:** Matplotlib · Seaborn · Plotly · Tableau · Data Pipelines

**Certifications:** Endpoint Security · Ethical Hacking · Network Defense · Operating Systems · Computer Hardware (CISCO)