

# Aneesh Krishna

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## EDUCATION

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### Purdue University – Honors College

BS Computer Science & Statistics

May 2027

Minors: Math & Finance

- **Courses:** Computer Architecture · Systems Programming · Blockchain Development
- **Organizations:** Boiler Blockchain · Purdue Cricket · Tamil Sangam

## EXPERIENCE

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### Caterpillar (Data Mine) | Data Science Researcher

Aug 2025 – Present

- Increased CAT's paint usage efficiency by 10% by consolidating multiple production feeds into a single database
- Reduced process evaluation time by 15% with a Power BI dashboard that visualized consumer trends
- Minimized unplanned production downtime by 5% using a Django-based reporting tool for system anomalies

### Playtoon It | Software Developer Intern

Jun 2025 – Aug 2025

- Scaled to 250+ concurrent players by optimizing ECS & Netcode, cutting server costs by 40% and packet loss by 25%
- Cut latency spikes by 50% through event-driven architecture and object pooling, reducing player churn by 20%
- Reduced bandwidth by 35% by compressing serialized data and implementing delta updates

### Retail Hedging | Software Engineer Intern

Mar 2025 – May 2025

- Cut login latency in half by optimizing Auth0 token exchange and introducing lazy-loaded React components
- Increased payment reliability to 100% by implementing a secure Auth0–Stripe integration with RS256-signed JWTs
- Replaced continuous client polling with a one-time token fetch pipeline, tripling API throughput and improving scalability

### Purdue CILMAR | Data Science Researcher

Jan 2025 – Mar 2025

- Modeled sentiment trends across 18,000+ student surveys to track COVID's impact on education and culture
- Discovered a 30% increase in intercultural learning metrics post-pandemic through longitudinal statistical analysis
- Engineered automated data pipelines for 18K survey responses, reducing preprocessing time by 70%

## PROJECTS

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### Freelance DAO – Ethereum Marketplace

- Achieved 99% uptime by designing a fault-tolerant freelance platform with a multi-signature dispute resolution system
- Reduced gas costs by 60% by benchmarking smart contracts using Hardhat testing and custom optimization passes

### Vibe – Social Network

- Scaled a Java socket-based chat system to 100+ concurrent users with sub-50ms latency using thread pooling
- Improved session reliability by 75% through persistent user authentication and synchronized worker threads

### Quiz Stats – Analytics Dashboard

- Transformed raw student data into AI-powered insights by engineering a high-performance analytics engine (Pandas, NumPy)
- Automated performance insights and difficulty analysis through dynamic visualizations and personalized benchmarks

### Portfolio – Personal Website

- Developed a professional portfolio website using TypeScript, Tailwind CSS, & Vercel, attracting 10,000+ visitors
- Achieved 100% SEO, 98% best practices, and 96% accessibility Lighthouse scores via code-splitting and targeted optimization

## SKILLS

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- **Languages:** Python · JavaScript · C/C++ · Java · SQL · Solidity
- **Frameworks:** React · Node.js · Next.js · Django · Spring Boot · FastAPI
- **Tools:** Git · Docker · AWS/GCP/Azure · Jenkins · Linux
- **Certifications:** Ethical Hacking · Network Defense · Operating Systems (CISCO)