

Aneesh Krishna Parthasarathy

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Education

Purdue University Honors College - Class of 2027

West Lafayette, IN

B.S. Computer Science (Focus: Machine Intelligence) + Applied Statistics

Minors: Mathematics + Finance

- Coursework: Programming in C/Java/Python, Blockchain Dev, OOP, Data Structures & Algorithms, Computer Architecture, Multivariate Calculus, Linear Algebra, Discrete Mathematics, Statistics & Probability
- Extracurriculars: Boiler Blockchain, Purdue DOSA, Cricket & Social Outreach, Tamil Sangam

Academies @ Englewood (High School)

Englewood, NJ

Computer and Information Sciences - High Honor Roll

GPA: 4.3

- Coursework: Cybersecurity, AP Computer Science A, Programming in Java, Computer Networking, AP Calculus AB, AP Statistics, AP Macroeconomics, AP Chemistry/Biology/Physics I & II, AP US/World History/US Government
 - Activities: Founder & President: National Computer Science Honor Society, Secretary: Young Science Achievers Program, Treasurer: National English Honor Society, Marketing Head: American Red Cross.
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Technical Skills

- **Languages:** Java, C, C++, C#, Python, R, SQL, JavaScript, TypeScript, HTML5, CSS, Tailwind CSS, Solidity, LaTeX, Bash
 - **Technologies:** React, Node.js, Redux.js, GitHub, UNIX/Linux, MySQL, REST APIs, Matplotlib, VS Code, Express.js
 - **Skills:** Full Stack Development, Data Analysis, Data Modeling, Multithreading & Concurrency, Data Cleansing & Preprocessing, Shell Scripting, Big-O Analysis, Algorithm Design, Regression, Classification, Clustering, Machine Learning, Automata Theory, REST APIs, Version Control (Git), Docker, Unit Testing, Agile Methodologies
 - **Certifications:** Behavioral Research Investigators, Responsible Conduct of Research (**CITI Program**), Intro to Data Science/Cybersecurity/Modern AI, Python Essentials I/II, JavaScript Essentials I/II, CSS Essentials, HTML Essentials, Endpoint Security, Ethical Hacking, Cyber-Threat Management, Network Defense (**CISCO Networking Academy**)
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Experience

Retail Hedging LLC, Software Engineering Intern

May 2025 - Aug 2025

- Developed a sleek splash page and optimized front-end interface using HTML, CSS, React, and TypeScript
- Engineered a secure JWT-based Auth0–Stripe integration with tiered access control and dynamic claim injection
- Built an intuitive options trading UI that enhanced user experience, speed, and interaction efficiency

The Data Mine - West Lafayette, IN, Undergraduate Data Science Researcher

Jan 2025 - Present

- Leveraged Python to analyze Indiana state datasets, uncovering key trends, anomalies, and predictive patterns
- Delivered data-driven insights to inform strategic decisions for public agencies and private-sector stakeholders

Purdue University - West Lafayette, IN, Undergraduate Data Science & Statistics Researcher

March 2025 - Present

- Analyzed 18,000+ student survey responses from Japan and the U.S. to assess evolving educational values and life priorities. Modeled sentiment trends pre/during/post-COVID using R and Python to guide institutional research.

Marcia's Attic - Englewood, NJ, Retail Sales Associate & Web Developer

Jun 2022 - Aug 2022

- Designed and maintained an e-commerce site with product listings, stock status, and backend fixes.
 - Increased retail visibility by 80% through targeted digital marketing and web optimizations.
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Projects

Freelance DAO - Smart Contract Product, Lead Developer

- Developed a decentralized freelance platform on Ethereum using Solidity, enabling automated transactions between clients and artists through smart contracts, connected using MetaMask.
- Designed and implemented an on-chain voting mechanism to resolve disputes; community members cast votes to determine fair outcomes when conflicts arise between buyers and service providers.
- Ensured secure and transparent arbitration by leveraging blockchain records and consensus-based resolutions

Vibe - Social Media App, Lead Developer

- Built a multi-threaded Java back-end server and client GUI (Java Swing) to support real-time messaging, image sharing, friend management, and user search functionality.
- Engineered persistent, real-time chat with edit/delete message support using Java I/O and socket programming. Enabled smooth client-server communication via custom protocol handling.