Naveen Prabakar

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🎓 EDUCATION

Iowa State University — Ames, IA
Bachelor of Science in Computer Science, Minor in Data Science & Applied AI — *Expected May 2026*
- **GPA: 3.85/4.00**, Dean's List (Jan 2023 – Present), **Top 2% Academic Ranking** (Fall 2022)
- **Relevant Coursework**: Data Structures, Algorithms, DBMS, OOP, Software Development Practices
- **Certifications**: Prompt Design in Vertex AI (Google Cloud, March 2025), AI Fundamentals (DataCamp, June 2025)

⌨ TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL, NoSQL, JavaScript, HTML, CSS
Databases: MySQL, Neo4j, MongoDB, AWS RDS
Tools: Git, Docker, Postman, Maven, Gradle, CI/CD, AWS S3, AWS Lambda, Knime
Frameworks: Flask, SpringBoot, React, Tailwind CSS, FastAPI, Express, Node

💼 WORK EXPERIENCE

Database Administrator Intern — May 2025 – Present
Uline — *Pleasant Prairie, WI*
- Reviewed and optimized **SQL Server scripts** from the web team, improving query performance through **indexing** and tuning; achieved execution speed improvements of up to **42%**.
- Deployed updates to **tables**, **views**, and **stored procedures** across SYS, UAT, and production environments, ensuring smooth and consistent releases.
- Granted **least privilege permissions** in response to access tickets, supporting security compliance and role-based access control.

Lead Computer Science Tutor — Aug. 2023 – May 2025
Iowa State University Help Room — *Ames, IA*
- Led group tutoring sessions (4–5 students) across six CS courses, including **Data Structures, OOP in Java, Discrete Math, and Algorithms.**
- Helped 15–20 students master key data structures and algorithms, boosting exam scores by **10–15%**.
- Guided 30+ students in Java OOP, increasing project completion rates by **10–20%.**

</> PROJECTS

AI-Powered Note-Taking App | *Java, Spring Boot, MySQL, WebSockets* — August 2024 – December 2024
- Designed backend infrastructure using **Spring Boot** and **MySQL**, optimizing data retrieval by 20%.
- Integrated OCR functionality with **Tesseract API**, achieving 90% text extraction accuracy.
- Developed real-time live editing features via WebSockets, reducing collaborative latency by 30%.

E-commerce Phone Store | *React, Tailwind CSS, Node.js, Express.js, MongoDB* — March 2025 – May 2025
- Built full-stack online phone store with **product listing**, **cart management**, and **checkout flow**.
- Implemented responsive design and client-side form validation for improved UX.

RogueLike Dungeon Crawler | *C, C++, Linux, Ncurses* — January 2025 – April 2025
- Engineered a feature-rich roguelike game in C/C++ using **ncurses**, with **procedural level generation**, turn-based combat, and modular game architecture supporting dynamic difficulty scaling.
- Designed and optimized core systems including **enemy AI pathfinding Dijkstra's Algorithm**, and a full-featured **fog-of-war + line-of-sight rendering pipeline**.

Discord Anime Trivia Bot | *Python, MySQL, Docker, AWS (EC2, S3, RDS)* — May 2025 – June 2025
- Developed multilingual anime trivia bot supporting **multiple servers with real-time score tracking** and persistent MySQL storage.
- Deployed on AWS EC2 with MySQL database hosted on RDS and quiz images stored in S3, ensuring **scalability, reliable infrastructure, and minimal downtime**

👥 LEADERSHIP & INVOLVEMENT

BackEnd Lead — Jan. 2025 – Present
AI/ML Club — *Iowa State University, Ames, IA*
- Conducted workshops showcasing Gemini API, focusing on fine-tuning models, prompt design, and multi-modal (image) prompts.
- Taught the 5-step process of how Generative AI works, covering preprocessing, pre-trained models, fine-tuning, advanced fine-tuning, and model deployment