

Nikhil Sethuram Thenmozhi

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EDUCATION

University of Wisconsin-Madison

May 2026

Bachelor of Science, Computer Science

GPA: 3.93

- Relevant Coursework: Operating Systems, Big Data Systems, Database Systems, Algorithms and Data Structures, Artificial Intelligence, OOP using Java, Machine Organisation and Programming using C, Linear Algebra, Machine Learning, Theory and Design of Programming Languages

EXPERIENCE

Google (Capstone)

August 2025 – December 2025

Software Engineering Intern

Madison, WI

- Formulated join reordering as a Quadratic Unconstrained Binary Optimization problem
- Implemented and ran quantum simulations using Qiskit to generate join orders and compared benchmarks against classical PostgreSQL cost-based optimizer
- Demonstrated scalable performance, successfully optimizing join orders for up to 6-table queries, with QAOA outperforming PostgreSQL's greedy heuristics on 5 and 6-table workloads in both latency and plan quality.

Nutanix

May 2025 – August 2025

Software Engineering Intern

San Jose, CA

- Migrated static asset serving for Go and Express-based services to Nginx, resulting in a 4× improvement in content delivery performance
- Built and ran a comprehensive performance-testing pipeline using Prometheus for CPU/memory metrics, Grafana K6 for load tests, JMeter for JavaScript benchmarks, and Playwright for end-to-end UI validation
- Managed and optimized a Kubernetes + Istio stack scaling from 20 to 100+ concurrent users without pod failure

LexisNexis

June 2024 – August 2024

Software Engineering Intern

Raleigh, NC

- Utilized Angular and C# within a microfrontend architecture to improve the modularity and scalability of Lexis+AI
- Developed and executed tests using SpecFlow increasing test coverage by 40% and integrated them within a Jenkins pipeline, ensuring seamless Continuous Integration for deployments
- Managed a successful migration from Docker to Podman, optimizing container management and orchestration.
- Monitored Datadog and Splunk Cloud to track critical errors, proactively resolving them to reduce daily logs

Coyna

June 2023 – August 2023

Software Engineering Intern

Bangalore, Karnataka

- Developed REST APIs using Spring Boot, JOOQ, and MySQL for efficient processing of payment transactions
- Implemented an AWS Textract-powered OCR service, achieving 95% accuracy in invoice data extraction
- Designed UI for mobile and web platforms using Angular and TypeScript, reducing user onboarding time by 20%

Undergraduate Teaching Assistant (CS 537 – Operating Systems)

Aug 2024 – May 2025

- Held in-person office hours to help students understand OS concepts such as scheduling, virtual memory, concurrency, and filesystems.
- Moderated forums like Piazza with over 800 students, providing timely support and clarifications on course material.

PROJECTS

SideKick | *Python, Next.js, Javascript, LangGraph, Open AI Whisper v3, Anthropic Claude 4*

- Built a Zoom integrated meeting bot that transcribes meetings in real time (sub-100ms latency) using Groq API and Whisper v3
- Engineered a LangGraph-based multi-agent orchestrator system leveraging Claude API for intent extraction and MCP for tool integrations such as Github and Outlook to automate PR reviews and calendar scheduling
- Developed a post-call Next.js dashboard enabling one-click approval of tasks enhancing meeting follow-through

Enrollbadge | *React, TailwindCSS, Python, JavaScript, Flask, SQLite, Selenium, Firebase*

- Led the development of a web app that notifies 1000+ UW-Madison students in real time about course availability; addresses issues of high demands eliminating repeated logins to check for open class seats
- Scraped over 5,000 courses using Selenium to create a searchable SQLite course database
- Built a Flask backend with rotating proxies for course change detection, deployed on a Linux-based DigitalOcean droplet with Nginx for reverse proxying

SKILLS

Languages: Go, Java, Python, C, C#, Javascript, Haskell, R, HTML/CSS

Frameworks: ASP.NET, Spring Boot, Angular, React.js, Node.js, Express.js, Flask, Django

Libraries: Tensorflow, Scikit Learn, Pandas, Numpy, Matplotlib, Pytorch

Tools: Git, AWS, Docker, Kubernetes, MongoDB, MySQL, PostgreSQL, Spark, Kafka, Cassandra, Postman, Firebase