Yash Verma

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Education

The University of Texas at San Antonio **Aug 2022 – May 2026**
Bachelor of Science in Computer Science *Overall GPA: 3.70*

Technical Skills

Languages: Python, C, Java, SQL, Shell, TypeScript, JavaScript, CSS, HTML, Swift, Kotlin, R, XML, LaTeX
Developer Tools: AWS, GCP, Azure, Linux, HashiCorp, Kubernetes, Docker, Kafka, Spring Boot, Atlassian, Git, VS Code
Databases: MySQL, AWS (DynamoDB, RDS, Aurora, Neptune), SQLite, Redis, PostgreSQL, MongoDB
Concepts: Software Development, System Design, Test-Driven Development (TDD), CI/CD, GitOps, Agile (Scrum, Kanban), OOP, Microservices, Design Patterns, DevOps, Cloud Architecture, Version Control Systems, Optimization

Experience

Udemy Inc. **Jun 2025 – Present**
Software Engineering Intern — Design Systems Engineering Team *Austin, TX*

- Developed and migrated scalable **React** components for Udemy's design system, enhancing **i18n**, **RTL**, and a11y support for **50M+ learners**; integrated Markdown, LaTeX, and KaTeX rendering across **250,000+ courses**.
- Implemented full-stack integration with Django services, contributing to backend pipelines and deployment workflows using **Kubernetes** and Docker on **AWS EKS**.
- Exercised leadership and collaboration, contributing in **Agile** sprints via **Jira**, documenting in Storybook/MDX, and coordinating across teams via **Confluence** and **GitHub** workflows.

AT&T Inc. **Jun 2024 – Jul 2024**
Software Engineering Extern *Remote*

- Gained experience with **Agile** frameworks (Scrum, Jira, Kanban, Scrumban, and XP), leveraging adaptability to drive efficient and collaborative project management and software development.
- Acquired and applied various modern technologies including **RESTful APIs**, Web Services, **Cloud Computing**, **Infrastructure as a Service** (IaaS), Platform as a Service (PaaS), and Software as a Service (**SaaS**), understanding their implementation and practical usage within AT&T's ecosystem.

The University of Texas at San Antonio, Computer Science Dept **Jan 2024 – Present**
Computer Science Tutor *San Antonio, TX*

- Mentored **300+** students across core CS courses, including **Systems Programming**, OOP, and Software Engineering, improving understanding of algorithms, data structures, and system-level logic.
- Increased assignment success rates by **25%** through hands-on guidance in **Java**, Python, and C, emphasizing debugging strategies, version control, and best coding practices.

Projects

Bird-Bot | *AWS (Lambda, ECS, Fargate, API Gateway, DynamoDB, IAM, Route 53), Terraform, Next.js, OpenAI API*

- Created an AI tutor for UTSA CS students, using textbooks and assignments as context for course-specific help.
- Deployed on **AWS ECS Fargate** with API Gateway and **DynamoDB**, ensuring scalability and **100% uptime**.
- Integrated the **OpenAI API** with a **Next.js** front end to answer common CS questions (e.g., SSH, loops).

Word2Vec4Kids | *Python, Word2Vec, Swift, SwiftUI, CoreML, iOS, SQLite, Shell, GitHub*

- Built a macOS app in **Swift** to teach **ML** concepts to Basis School students using **word2vec** for word arithmetic and cosine similarity for semantic relationships.
- Implemented a **SQLite** backend to store user data and game results; analyzed learning trends via **Python**, showing improvement with **p-value = 0.007**. Link to my published paper: doi.org/10.1609/aaai.v39i28.35197
- Leveraged 200-dimension embeddings to design interactive game modes, demonstrating measurable **AI** concept gains.

Leadership / Extracurricular

Association for Computing Machinery (ACM), Rowdy Creators **Aug 2023 – Present**
Director (formerly Chief Technical Officer) *The University of Texas at San Antonio*

- Leading a full rebrand and organizational revamp to boost engagement and visibility; introduced weekly sessions with industry professionals, increasing member participation by **40%** and project activity across **7 active teams**.
- Served as CTO, providing technical mentorship across cloud, AI/ML, and full-stack development; maintained a **Next.js** website with **99.9% uptime**, supporting **400+ users** and reducing load time by **25%**.