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: 3.60*

Technical Skills

Languages: Python, C, Java, SQL, Shell, JavaScript, CSS, HTML, Swift, LaTeX
Developer Tools: AWS, Azure, GCP, Kafka, Kubernetes, Docker, Git, Android Studio, VS Code, Xcode, WebStorm
Technologies/Frameworks: Apache, ReactJS, Next.js, Node.js, JUnit, scikit-learn, SwiftUI, CoreML
Databases: MySQL, AWS (DynamoDB, RDS, Aurora, Neptune), SQLite
Concepts: Software Development, System Design, Cloud, Software Design Patterns, Github, Unit Testing, UI/UX, Agile

Experience

AT&T   **Jun 2024 – Jul 2024**
Software Engineering Extern   *Remote*
- Gained experience with **Agile** frameworks (Scrum, 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 in Software Engineering, Applications Programming, Systems Programming, Object-Oriented Programming, Programming 2, and Programming 1, demonstrating strong communication skills.
- Developed personalized strategies, helping **90%** of students successfully debug and complete projects while deepening their understanding of data structures, algorithms, and **system-level programming**.
- Enhanced students' proficiency in Java, Python, and C, contributing to a **25%** improvement in assignment completion rates and promoting best practices in software development, **version control**, and testing.

Projects

Word2Vec4Kids | *Python, Google word2vec, Swift, SwiftUI, CoreML, SQLite, Shell, GitHub*
- Developed the Word2Vec4Kids macOS application using **Swift** to teach Machine Learning concepts to students at Basis School - SA, integrating word2vec for word arithmetic and cosine similarity algorithms for word proximity calculations.
- Implemented a backend system using **SQLite** to store user data and game results, and analyzed user learning trends through Python, showing measurable knowledge improvement with a statistically significant **p-value of 0.007**.
- Leveraged **200-dimension word embeddings** to create interactive, educational game modes, resulting in demonstrable knowledge gains for students, validated through pre and post surveys evaluating their understanding of **AI**.

Math.AI | *AWS (EC2, AMI, Auto Scaling, API Gateway, DynamoDB, IAM), Apache HTTP Server, Next.js, OpenAI API*
- Orchestrated the system design of a seamless and scalable AI chatbot web app exploiting **AWS EC2 Auto Scaling**, API Gateway, and DynamoDB, ensuring uptime and responsiveness by **100%**.
- Integrated **OpenAI's API** for kid-friendly math guidance, leading to a **30% improvement** in learning outcomes for grades 2 to 8, as indicated by pre-interaction surveys.
- Engineered an optimized UX with **Next.js**, boosting UI response by **25%** for a smooth and engaging experience

Clothing E-commerce | *Next.js, Java, Apache Tomcat, AWS (EC2, Lambda, DynamoDB), GitHub*
- Managed a scalable React front-end hosted on an **AWS EC2** instance, providing a dynamic user experience for a clothing e-commerce platform, utilizing strong problem-solving and adaptability to ensure scalability.
- Designed and deployed a **Java** backend API hosted on AWS Lambda with **Apache Tomcat**, enabling secure and efficient communication between the front end and DynamoDB for real-time product management.
- Integrated **AWS DynamoDB** as the primary database, optimizing data retrieval and storage for high-volume e-commerce transactions while ensuring fault-tolerant and low-latency operations.

Leadership / Extracurricular

Association for Computing Machinery (ACM), Rowdy Creators   **Aug 2023 – Present**
Technical Officer   *The University of Texas at San Antonio*
- Provided technical guidance to over **10** project teams in Rowdy Creators, offering expertise in cloud computing, AI/ML, Linux environment setup, and website hosting: accelerating project delivery by **30%**.
- Developed and maintained a scalable website for Rowdy Creators using TypeScript and the Next.js framework, ensuring **99.9%** uptime by leveraging Vercel, supporting over **400** active users, and reducing load times by **25%**.