Devrat Patel

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EDUCATION

The University of Texas at Arlington *Aug. 2023 – May 2027*
Bachelor of Science in Computer Science *GPA: 3.71/4.0*
- **Relevant Coursework:** Theoretical Concepts of CSE, Data Structures and Algorithms, Object Oriented Programming, Assembly Language Programming, Database Systems and File Structures, Discrete Structures

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Swift, Ruby, Golang, SQL, C, Java, C++, C#, HTML/CSS
Frameworks: Flask, React.js, Next.js, Node.js, Tailwind CSS, AngularJS, Bootstrap
Tech/Tools: AWS (EC2, S3), Microsoft Azure, Figma, Git, GitHub, MySQL, pgAdmin, PostgreSQL, psycopg2, chart.js, VS Code, Regex, Unix, Postman, PyCharm, Unity, Vercel, Adobe Creative Suite, macOS, iOS

EXPERIENCE

Full Stack Developer | Innovative Data Intelligence Research Lab (IDIR) *June 2025 – Present*
The University of Texas at Arlington
- Developing *CSE Nexus*, a centralized web app replacing front desk Excel workflows for the CSE department.
- Built scalable Flask apps using Jinja2 templating, Bootstrap, and Semantic UI within a Python environment on WSL.
- Implemented secure LDAP-based login authentication and route protection using custom decorators.
- Used caching mechanisms via `flask_caching` to optimize performance and reduce redundant database queries.

PROJECTS

PrintQ | *Next.js, Firebase, Tailwind CSS, TypeScript* *May 2025 – June 2025*
- Built a real-time queue management app for UTA Libraries' Print & Design Studios, replacing manual processes.
- Conducted user research at Chick-fil-A and other locations to study efficient queue workflows and system design.
- Implemented real-time CRUD operations using Firebase Firestore and role-based auth with secure access rules.
- Designed a responsive UI with glassmorphism, Framer Motion animations, and toast-based user feedback.
- Integrated admin dashboards with live metrics, historical data export (CSV/PDF), and staff performance tracking.
- Improved customer experience with real-time queue status, estimated wait times, and dynamic TV display system.

Arlington Organic Market | *Flask, PostgreSQL, HTML/CSS, JavaScript* *Jan. 2025 – May 2025*
- Developed a full-stack inventory and vendor management system for local markets using Flask and PostgreSQL.
- Designed a normalized relational schema to ensure data integrity and optimize complex join queries.
- Implemented CRUD operations via dynamic forms for vendors, products, and store inventory updates.
- Implemented search and filter functionality, along with custom SQL views for reporting and insights.

mavgrades.com | *Figma, TypeScript, Next.js, Chart.js, Tailwind CSS* *Sept. 2024 – Present*
- Designed the complete UI/UX in Figma and translated it into a responsive, accessible front-end with Tailwind CSS.
- Built an interactive grade distribution platform used by 15,000+ UTA students to evaluate course performance.
- Integrated real-time GPA breakdowns using Chart.js with smooth filtering, transitions, and dynamic routes.
- Collaborated with dev teams on GitHub using PR reviews, conflict resolution, and version-controlled deployments.
- Boosted engagement and retention through performance optimization and accessibility-first design principles.

LEADERSHIP & INVOLVEMENT

Association for Computing Machinery (ACM) *Oct 2023 – Present*
President, Advisor, Committee Director, Officer, Member
- Oversaw a 35+ officer team executing 50+ events and led initiatives such as *mavgrades.com* and ACM Create.
- Secured $15,000+ in sponsorships and enhanced member engagement through semester-long project incubators.

MOBI *Nov. 2023 – May 2025*
Senior Developer, Officer, Member

Cybersecurity Club (CSEC) *Oct 2023 – Aug 2024*
Officer, Member