Darsh Chaurasia

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EDUCATION

B.S., Computer Science   May 2026
Arizona State University, Tempe, AZ   Cumulative GPA: 3.96
Minor: Data Science · Certificate: Applied Business Data Analytics · Dean's List Honor (Fall 2022 - Present)
Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Distributed Software Development, Theory of Computation, Comp. Architecture, Linear Algebra, Discrete Math, Digital Design Fundamentals, Data Wrangling with SQL, Data Analysis with Python

TECHNICAL SKILLS

HTML/CSS/JavaScript (6 years) · Java (4 years) · C/C++ (2 years) · Python (2 years) · R · SQL (2 years) · PostgreSQL · React.js · Next.js · Node.js · Vite · Git · Docker · Astah UML · Jira · Advanced Excel · Tableau · Postman · Google Cloud · AWS · TensorFlow · Keras · Pandas · Matplotlib · Numpy · Microsoft Office Suite · Prompt Engineering · Database Management

ENGINEERING EXPERIENCE

Volunteer Data Research Assistant, Arizona State University, Tempe, AZ   September 2024 - Present
- Manage about 6k+ health records from wearable technology, analyzing patterns & trends writing SQL queries.
- Ensuring collection of a minimum of 65% clean & high-quality data by daily monitoring operating REDCap.

Computer Science Tutor, Arizona State University, Tempe, AZ   August 2024 - Present
- Accomplish creation of Math, Python, and Object-Oriented Programming content delivered and accessible to 1k+ university students via InScribe's Education Platform.
- Organize course content absorption and successful completion of college-level engineering and math courses with weekly revision and practice sessions of around 40 questions per returning student.

PROJECT EXPERIENCE

Inferno Verification Service   November 2024 - November 2024
- Streamlined user onboarding and role assignment, by eliminating manual intervention for 200 server members, by developing a Discord bot automating verification using OAuth2 authentication & assigning roles seamlessly.
- Improved community security preventing spam messages or bot attacks, by creating a self-serve verification system leveraging Node.js, Discord.js, and OAuth2 authentication to prevent unauthorized access & enhance trust within community.

Intel Data Center   October 2024 - October 2024
- Analyzed 16 fields of energy data to identify optimal data center locations, assessed by production, surplus, and renewable usage, by executing SQL queries (joins, unions) across 3 schemas.
- Achieved sustainability insights, as measured by regional renewable energy adoption percentages, by building Tableau dashboards showcasing performance and adoption trends.

NBA Game Outcome Prediction Model   September 2024 - September 2024
- Predicted NBA game outcomes, achieving a precision of 78.7%, by preprocessing game data, conducting exploratory analysis, & training a Random Forest model using R libraries such as caret & randomForest.

Pathfinding Visualizer   August 2024 - August 2024
- Deployed a responsive web app for visualizing Dijkstra's and A algorithms, achieving 94% accurate pathfinding simulations using React, Next.js, & TypeScript.
- Designed a 20x20 grid-based interface with obstacle placement, enabling precise visualization of 2 pathfinding processes to enhance user interaction and understanding.
- Enhanced user experience and visualization clarity with smooth path animations & responsive design, leveraging CSS for styling & Next.js for efficient state management and performance optimization.

VOLUNTEER EXPERIENCE

The AI Society, Assistant Vice President, Tempe, AZ   July 2024 - Present
- Develop & maintain a data-archiving website with Next.js, Google API, TypeScript, and React, while creating separate internal tools such as email & Discord automation bots, boosting efficiency by 60% & community growth by 30%.
- Oversee recruitment from documentation to hiring, analyzing trends to optimize marketing operations & attract top talent.

Software Developers Association, Technical Development Officer, Tempe, AZ   April 2024 - Present
- Deployed the Hack SoDA website & led hackathon operations and strategy by maintaining a Notion page with 13+ databases, writing team formation automation scripts & test cases, & overseeing logistics.