

Darsh Chaurasia

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EDUCATION

Arizona State University

May 2026

B.S., Computer Science · 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, Data Wrangling with SQL, Data Analysis with Python, Theory of Computation, Comp. Architecture, Linear Algebra, Discrete Math

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

WORK EXPERIENCE

Edson College of Nursing and Health Innovation, Research Assistant, Tempe, AZ

September 2024 - Present

- Manage about 6,746 health records from wearable technology, measured by streamlined data integration, operating REDCap

Academic Support Network at Arizona State University, Subject Area Tutor, Tempe, AZ

August 2024 - Present

- Facilitate learning, assisting over 100 undergraduates, by teaching Calculus, Linear Algebra, Statistics, Java, Python, C++, Data Structures & Algorithms, and test scripting

PROJECT EXPERIENCE

Intel Data Center

October 2024 - October 2024

- Analyzed regional energy data to identify optimal data center locations, assessed by production, surplus, and renewable usage, by executing SQL queries (joins, unions) across multiple schemas
- Demonstrated efficiency and sustainability insights through Tableau visualizations highlighting production trends across regions

NBA Game Outcome Prediction Model

September 2024 - September 2024

- Predicted NBA game outcomes coding a machine learning model, achieving a precision of 98.7%, by preprocessing game data, performing exploratory analysis, and training a Random Forest model with R libraries such as caret and randomForest

Pathfinding Visualizer

August 2024 - August 2024

- Deployed web app for visualizing Dijkstra's & A* algorithms, with 100% effective simulation of algorithms, by creating 20x20 grid-based interface with obstacle placement using React, Next.js, & TypeScript

Web Page Annotator

August 2024 - August 2024

- Developed floating menu interface, supporting text highlighting in 3 colors & up to 5 notes per webpage, by leveraging local storage for data persistence & implementing JavaScript & DOM manipulation

Fight Club AI

July 2024 - July 2024

- Engineered web app for real-time debates between AI agents on user-specified topics, by integrating a backend with Open AI API & Axios, using GPT-3.5-turbo for argument generation & evaluation

Online Database for Vietnamese Shrimp Farmers

January 2024 - May 2024

- Visualized dashboard leveraging M.E.R.N. stack to improve farming, understood by analysis of schema with 5 attributes affecting shrimp farming, by streamlining communication between farmers & database

Doctor's Office Automation App

January 2024 - May 2024

- Led development of GUI application with SQLite database in 4 phases, implementing CRUD operations using JavaFX, by mentoring a team of 3 to meet production standards through Eclipse IDE & coordinating via Jira

LEADERSHIP EXPERIENCE

The AI Society, Assistant Vice President, Tempe, AZ

July 2024 - Present

- Developed full-stack web solutions with Next.js, Google API, TypeScript, & React, driving 60% efficiency & 300% community growth, by orchestrating cross-functional team operations, advising VP & President, & creating internal tools such as Email & Discord automation bots

Software Developers Association, Technical Development Officer, Tempe, AZ

April 2024 - Present

- Build the Hack SoDA website & Notion page, devising 13+ databases, by leading hackathon operations & strategy

Community Assistant, University Housing at Arizona State University, Tempe, AZ

October 2023 - February 2024

- Managed residential life for at least 20 hours weekly, ensuring community safety by responding to 10+ emergencies, collaborating with ASU Police, & composing 15+ detailed reports

CERTIFICATES

- Import pre-trained Deep Learning models in TensorFlow Digital Badge by Arizona State University
- API Fundamentals Student Expert Digital Badge by Postman
- Front-End Developer Professional Certificate authorized by Meta