

Gui Sen Zou

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Education

University of Georgia, School of Computing

Bachelor of Science in Computer Science

Graduation Date: December 2025

GPA: 3.66/4.0

Relevant Coursework: Web Programming, Software Engineering, Computer Networks, Computer Architecture

Programming Languages: Python, Java, C#, JavaScript, TypeScript

Experience

PayMore Store, *Junior Data Analyst*

Present

- Query POS & e-commerce databases to build weekly sales/trade-in dashboards; cut reporting time 35%.
- Test and validate software/hardware components to ensure reliability and adherence to quality standards.
- Built reporting that improved visibility into inventory and sales trends; supported business insights contributing to >\$10,000 in sales.

Projects

DSA Visualizer, *HTML, CSS, JavaScript — In Progress*

- Building interactive visualizations for common data structures and algorithms (arrays, linked lists, stacks/queues, trees, graphs, sorting/searching).
- Emphasizes step-by-step animations, runtime intuition, and edge-case exploration.
- Goal: production-ready tool for future use by the department in courses and tutoring.

AI Fake News Detector, *Python, Kaggle dataset*

- Built an end-to-end NLP pipeline (data cleaning, tokenization, TF-IDF/embeddings) to classify news as real vs. fake.
- Trained and evaluated multiple models (e.g., Logistic Regression); reported accuracy, precision/recall.
- Implemented reproducible experiments and confusion-matrix/error analysis to improve generalization.

Smart Receipt Scanner & Expense Categorizer, *Python, OCR (Tesseract/OpenCV)*

- Scanned receipts to pull merchant, date, and totals with OCR.
- Auto-categorized expenses (groceries, dining, transit) with a small model + rules.
- Built a simple Streamlit app to upload receipts and export a CSV report.

CashCourse - UGAHacks X, *TypeScript/CSS/JavaScript*

- Developed a full-stack personal-finance quiz game with interactive challenges.
- React frontend + PostgreSQL backend via Drizzle ORM; secure auth and progress tracking with Clerk.
- Collaborated via GitHub and Figma; practiced agile planning and issue tracking.

DMC-Cafe, *TypeScript/CSS/JavaScript*

- Designed and built a full-stack web application with a React frontend and Node.js backend.
- Implemented user authentication and authorization with secure login/signup functionalities.
- Managed MongoDB database using MongoDB Atlas for storing user data and application elements.
- Collaborated with a team, utilizing GitHub for version control and Figma for UI/UX design mockups.

Discord Bot Developer, *Python, Discord.py, OpenAI API*

- Created and deployed a Q&A assistant with music playback and automated greetings.
- Collected user feedback to prioritize features; actively used by a 100+ member test server.

Skills

Web & Software Development: HTML/CSS, Node.js, React, MongoDB, JWT, bcrypt, CRUD, SQL, Git, Visual Studio Code, NetBeans, SCRUM

Game & Interactive Media Development: Unity, Ren'Py, Blender, Figma, problem-solving/debugging

Data & Technical Tools: Excel, Matlab, SQL, problem-solving/debugging