

SACHIN BANJADE

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EDUCATION

University of North Texas

Bachelor of Science in Computer Science; Honors Program

– UNT Transfer Excellence Award — Phi Theta Kappa Honor Society

Denton, TX

Expected May 2026

Dallas College

Associate in Science Degree

Dallas, TX

December 2022 – May 2024

Youngstown State University

Bachelor of Science in Computer Science

– YSU Honors Scholar Award — YSU International Scholar Award

Youngstown, OH

August 2022 – December 2022

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C++, C, HTML5/CSS3, SQL

Operating Systems & Automation: Unix/Linux, Bash/Shell Scripting, Python Automation, Cron Jobs, Log Analysis

Frameworks & Technologies: React, Angular, Node.js, Express.js, MySQL, REST APIs, JDBC

Core Competencies: Data Structures & Algorithms, OOP, Database Management, System Design, Web Architecture, Agile/Scrum, Git

Algorithms & Data Structures: Binary Search, Quick/Merge Sort, BFS/DFS, Dijkstra's, Dynamic Programming, Hash Maps, BST/AVL

TECHNICAL PROJECTS

Alumni Networking & Insights Platform (UNT Dean's Office) — *Python, JavaScript, React, MySQL*

- Developed full-stack alumni analytics platform processing 10,000+ records, improving data accessibility by 70% via interactive visualizations and geographic mapping
- Engineered ETL pipeline with validation reducing inconsistencies by 85%, using hash maps for O(1) duplicate detection and regex for format standardization
- Built responsive React UI with Google Maps integration across 200+ cities and implemented lazy loading for 50% faster page performance

Unix System Monitoring & Automation Tool — *Python, Bash, Unix*

- Developed Python and shell scripts to monitor CPU, memory, disk usage, and uptime on Unix systems
- Automated health checks and log analysis using cron jobs to reduce manual intervention
- Generated structured text and JSON reports to support system troubleshooting and reliability

Inventory Management System — *Java, MySQL, Swing GUI, JDBC*

- Built inventory system with Java backend and MySQL database supporting 1,000+ SKUs with CRUD operations and transaction logging
- Implemented Hash Maps and BSTs to achieve O(log n) search performance, improving query speed by 60% over linear search

Secure Credit Card Transaction System — *Java, AES Encryption, JDBC, MySQL*

- Built payment-processing backend using AES-256 encryption and parameterized SQL to mitigate injection risks; processed 500+ test transactions
- Implemented transaction validation using state machine pattern to handle duplicates, insufficient funds, and timeouts

City Growth Simulation Engine — *C++, OOP, STL*

- Developed agent-based simulation on 100x100 grid using cellular automata for residential, commercial, and industrial interactions
- Designed 12+ modular classes following SOLID principles and implemented BFS for pollution spread with spatial partitioning for 60 FPS visualization

PROFESSIONAL EXPERIENCE

SEO Assistant

Technology Spot

June 2020 – May 2022

Remote

- Increased organic traffic by 40% through keyword research and content optimization using Google Analytics, driving 15,000+ monthly visits
- Executed SEO improvements across 50+ pages, moving 20+ target keywords into top-10 search positions

Student Assistant

Youngstown State University

August 2022 – December 2022

Youngstown, OH

- Supported 10+ students with autism through individualized academic assistance, improving assignment completion by 30%
- Tracked progress using structured documentation and Excel templates with conditional formatting for quick insights

HONORS & CERTIFICATIONS

Phi Theta Kappa Honor Society — YSU Honors Scholar Award — YSU International Scholar Award — Certified in Leadership and Teamwork (Tressel Institute)