RETT A. GRAHAM

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OBJECTIVE

University of Michigan computer science graduate with software development experience through internships and entrepreneurial ventures. I am seeking a software engineer position to apply my problem-solving abilities and passion for innovation in a professional environment.

EDUCATION

Bachelor of Science in Computer Science, **University of Michigan** **Aug 2020 – Dec 2023**
Dean's List | GPA 3.34/4.00 *Ann Arbor, MI*

Associate of Science and Arts, Northwestern Michigan College **Aug 2018 – May 2020**
Phi Theta Kappa Honor Society | GPA 3.82/4.00 *Traverse City, MI*

SKILLS

Programming Languages: Bash | C++ | C | C# | HTML | CSS | JavaScript | Python | SQL | R
Frameworks*:* Django | Flask | Git | NumPy | OpenCV | Pandas | ReactJS | React Native | SQLite | PyTorch
Cloud Platforms: Amazon Web Services | Firebase

Certificates: Supervised Machine Learning, Stanford University | Python Data Structures, University of Michigan

EXPERIENCE

Senior Software Developer Intern **May 2023 – Aug 2023**
Desai Accelerator *Ann Arbor, MI*
● Led software development for 6 different tech startup companies and completed 40+ tech projects. The companies positively resulted in accelerated business timelines and enhanced organization.
● Built and designed software that generated social media video ads videos that reduced time, resources, and money toward marketing for the business. This software project utilized Bash, ReactJS, and the Remotion framework.
● Attended weekly project management meetings to manage agile development of projects, reducing blockers and increasing team communication, resulting in early completion of projects.

Cohort Fellow **Oct 2022 – Dec 2023**
Entrepreneurial Leadership Program *Ann Arbor, MI*
● Created business models, market analysis, value propositions, competitive and competitor landscapes, and profit and loss models to evaluate businesses and their needs effectively.
● Assisted with tech startup's backend algorithms for college roommate matchmaking, resulting in 98% compatible pairings. These solutions were developed in NextJS, Python, and MongoDB.

Research Assistant **Jan 2021 – Jan 2022**
NOME Laboratory *Ann Arbor, MI*
● Led research and building of image processing software which automated measurement extraction of nuclear material cavity images eliminating the need to manually parse and record thousands of images. This used Python and OpenCV.
● Held presentations of software research during biweekly meetings with PhD candidates. This resulted in more refined documentation and project quality.

PROJECTS

Pipeline Processor – *Course Project* **C**
● Built a five-stage pipeline processor utilizing object-oriented programming. The processor was able to detect data and control hazards showcasing reduced time complexity and loops compared to a single-cycle and multicycle processor.

Sorting Simulator – *Personal Project* **HTML | CSS | JavaScript**
● Implemented 6 core sorting algorithms that visualize elements of an array being sorted in real time. This project strengthened my understanding of core sorting algorithms and local hosting.

NBA Game Predictor – *Personal Project* **Python | ReactJS**
● Developed a game predictor utilizing a logistic regression machine learning model to forecast NBA game outcomes that had a 72% accuracy. Frameworks used were Pandas, Flask, Git, and techniques used were machine learning and APIs.

Instagram Clone – *Course Project* **Python | SQL | ReactJS | Amazon Web Services**
● Coded a dynamic client-side Instagram clone that mirrored Instagram's core features and algorithms. Frameworks used were Flask and Git and techniques used were APIs.