RETT A. GRAHAM

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OBJECTIVE

University of Michigan computer science graduate with 2+ years of software development experience through internships, entrepreneurial ventures, and entrepreneurial clubs. I am seeking a software engineer position to apply my problem-solving abilities and passion for innovation.

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. A record number of projects resulted in accelerated business timelines of 3+ months.
- Built and designed software that generated social media video ads that reduced the budget toward marketing for the business by around 30%. 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 some projects by 5+ days.

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 resulting in 5 established startups in less than 4 months.
- 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 1000+ 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 allowing tasks to be completed 2+ days before deadlines.

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 by 20% 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.