Aman Dhruva Thamminana

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EDUCATION

Michigan State University | East Lansing MI | December 2024

Bachelor of Science in Computer Science, and Bachelor of Science in Mathematics | **GPA 3.84**

Minor in Computational Mathematics, Science & Engineering (CMSE), and Entrepreneurship & Innovation.

Relevant Coursework: Computational Modeling, Data Analytics, Computer Systems, Software Design, Theory of Algorithms(Grad), Foundations of Computing(Grad), Distributed Systems(Grad), and iOS Design Lab.

EXPERIENCE

Auto-Owner Insurance | Software Development Intern **|** May 2023 – August 2023

- Engaged in data unification projects, focusing on setting up stage tables, indexes, in-force keys, current snapshots, cleaning data and related tasks across over 200 million records and saving up to 40 hours.
- Utilized services like Wherescape and DQ+ to streamline and enhance data management processes while working with Hive and Microsoft SQL databases to ensure efficient data management and integration.
- Collaborated with cross-functional teams to ensure seamless integration and data consistency.
- Contributed to documentation efforts to maintain comprehensive records of data unification processes.

Odin Classroom | Co-Founder **|** January 2023 - Present

- Co-founded and developed Odin-classroom, a computer science course management platform, from concept to a functional prototype.
- Successfully secured $10K+ in pre-seed funding within 3 months as a finalist in the Burgess New Venture Challenge pitch competition and gained entry into the Momentum pre-accelerator program, driving the platform's growth.
- Made a significant impact by gaining valuable experience in pitching, business planning, and developing a high-scale platform. Developed essential entrepreneurial skills and demonstrated resilience in overcoming startup challenges.

Research in Math and Genetic Programming | Dept. Math & Computer Science **|** Jan 2023 – Present

- Working on automatic code repair and evolutionary program synthesis using GPT-3 and genetic programing for Department of Computer Science.
- Learning and solving problems in Ideal Group and Ring theory for Department of Mathematics.

Michigan State University | Teaching Assistant **|** September 2022 – Present

- Assisted with classroom instruction and content review for over 1100+ students.
- Taught courses such as CSE 260 (Discrete Math), CSE 331 (Data structures and Algorithms), CSE 431 (Algorithm Engineering) and CSE 231 (Intro to programing 1) and Apple Design Lab
- Collaborated in developing an innovative curriculum for the Apple Design lab, incorporating critical thinking, teamwork, entrepreneurship, and design principles.
- Mentored students with homework, projects, and in-class assignments, providing valuable feedback to both instructors and students. This facilitated a dynamic and engaging learning environment.

Projects

Natural Language Processing (NLP) and Sentiment Analysis

Developed Machine Learning model to predict positive and negative Tweets using Python and libraries such as NumPy, and TensorFlow. Used GPT-3 LLM in a bot to help with suicide prevention hotline during overload.

App Development

Designed and developed several iOS apps in Figma and native Swift presented the app "Pause" at Apple Developer Academy. Developed cross-platform iOS and Android apps during Hackathon using Flutter.
Using ARKit created an iOS app to show directions for visually impaired during times of evacuation.

Recursion backtracking visualizer

Developed a Java project to visualize backtracking in sudoku which is currently being used as a teaching resource.

TECHNICAL SKILLS

Programing Languages: Python, JAVA, C/C++, Swift, MySQL, Ruby, Rust, and ARM assembly.
Frameworks and Libraries: Git, TensorFlow, Pandas, React.js, Next.js, ARkit, Flutter, AppSync, and GPT.

Awards

Best AR/VR Hack and Best Accessibility Hack MHacks 15 (Feb'23), Best Android App SpartaHacks 17(Apr'22), and Burgess New Venture Competition Finalists (Apr'23)