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 3.7**

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

Evidence of Excellence:

- Applied extreme programming methodologies in capstone projects, hackathons, startup development, and coursework. Demonstrated proficiency in agile practices including pair programming, test-driven development, and iterative design, enhancing productivity and code quality in collaborative environments.
- Conducted two research projects: explored code repair and evolutionary synthesis using GPT-3 in Computer Science; investigated computational algebraic geometry with focus on hyperelliptic curves in Mathematics.
- Engaged in a diverse and rigorous graduate level academic curriculum during undergraduate studies like Computational Modeling, Data Analytics, Theory of Algorithms (Grad), Foundations of Computing (Grad), Distributed Systems (Grad), Pattern Recognition (Grad), and iOS Design Lab.

EXPERIENCE

Ford Motor Company Software Development Intern | May 2024 – August 2024

- Engaged in the Ford Engineering Development Environment Bill of Materials (FEDEBOM) application in Java. Ensured efficient are efficiently integrated, maintained, and optimized for over 5,000 design engineers.
- Established the first documentation standard for Java Backend code for over 80 developers, developing systems to ensure consistent and accessible documentation for onboarding and training purposes.
- Engineered and deployed notification systems to Google Cloud Platform (GCP) with Terraform, effectively notifying the appropriate users as needed.

Odin Classroom | Co-Founder and Software Developer | January 2023 - Present

- Co-founded and developed Odin-classroom, a computer science learning management platform, Optimized system architecture, increasing speed 3.7X and reducing student wait times from 30 minutes to 20 seconds.
- Secured $40K+ in VC pre-seed funding within a year. Led the formulation and execution of comprehensive marketing and business development strategies, launching beta across 3 classes with 1000+ students.
- 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.

Auto-Owners 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 and contributed to documentation efforts to maintain comprehensive records of data unification processes.

Michigan State University | Teaching Assistant | September 2022 – Present

- Assisted with classroom instruction and content review for over 3500+ students during 300+ sessions.
- Taught courses such as CSE 260 (Discrete Math), CSE 331 (Data structures and Algorithms), CSE 431 (Algorithm Engineering) and CSE 231 (Intro to programming 1) and Apple Design Lab
- Collaborated in developing an innovative curriculum for the Apple Design lab, incorporating critical thinking, teamwork, entrepreneurship, and design principles.

Projects

Large Language Model GPT – 3, and Natural Language Processing (NLP).

Led a team of 5 in hackathon projects, implementing GPT-3 LLM in a bot to assist with suicide prevention and 911 hotline management during overload. These systems reduced critical wait times by 30 minutes.

App Development

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.

TECHNICAL SKILLS

Programming 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.