Archana Chandran

She/Her | Ann Arbor, MI | archanac@umich.edu |248-924-0550
Linkedin.com/archana-e-chandran

Education

University of Michigan, Ann Arbor   ***August 2022 – May 2026***
B.S. in Computer Science, Minor in Business from Ross School of Business   *GPA 3.84/4.00*
Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Foundations in Computer Science Theory, Discrete Mathematics, Object-Oriented Programming, Web Systems, and Cryptography

Relevant Experience

CVS Health   ***May 2024 – August 2024***
Security Architecture Intern and Developer   *Hartford, CT*
- Analyzed new security technologies during Proof of Concept (POC) phases, assessing against the NIST framework and devising over 50 architectural artifacts to aid architects in designing key concepts such as Multi-Factor Authentication, Web Application Firewall, Intrusion Detection System, Server and Device Certificate Management, and more.
- Developed and trained a chatbot deploying natural language processing techniques, using Flask and Node.js for backend, PowerBI for data storage, APIs for integration, and Power Automate for task automation.
- Assisted over 300 enterprise and solution architects by use of the chatbot in navigating the Security Architecture's repository of 150+ core control and reference artifacts, reducing search time by over 50%.

University of Michigan College of Engineering   ***August 2023 – Present***
EECS 280 Instructional Aide, Student Events Lead   *Ann Arbor, MI*
- Instructed an interactive lab and created engaging lessons on foundational coding concepts such as data structures, object-oriented programming, testing, debugging, and computer science fundamentals for 30+ students each week.
- Designed and organized class-wide comprehensive exam review sessions and events to bolster success of over 1,100 students across 5 sessions per semester, in a total of 20 sessions throughout 4 semesters.
- Achieved innovative and diverse teaching practices and tailored office hours to student needs, resulting in a 20% increase in lab grades during Winter 2024, and a 97% approval rating from lab students across 3 semesters.

Project Experience

Kappa Theta Pi Life App   ***August 2023 – Present***
iOS and Android App Developer, Product Manager   *Ann Arbor, MI*
- Implemented a recognition and gamification feature allowing 80+ users to earn badges based on involvement, leveraging custom data types and algorithms in Dart with Android Studio to ensure efficient performance.
- Integrated 18 Image Asset designs through Figma and connected with Firebase, providing real-time updates on user badge progress and enhancing user engagement, with a 94% satisfaction rating from members across a year.
- Led development of the Coffee Chats tracker feature, facilitating communication between Development and Design teams utilizing Agile methodologies to deliver a tool used by over 90 members for efficient progress tracking.

3D Puzzle Solver   ***October 2023 – November 2023***
C++ Developer   *Ann Arbor, MI*
- Created a C++ program utilizing Breadth-First Search and Depth-First Search algorithms to efficiently solve complex 3D maze puzzles with thousands of levels, floors, and interactive buttons with use of custom data structures.
- Programmed over 700+ lines of code, and crafted a streamlined command-line interface leveraging getopt_long().

Leadership Experience

College Volunteer Facilitator Corps, MASC/MAHS   ***March 2022 – Present***
Application Programming and Membership Chair   *Lansing, MI*
- Facilitated leadership curriculum for over 10,000+ high school students across Michigan and spoke among 1,000 student leaders at MASSP's Women's Leadership Summit and MASC's State Conference.
- Served as a leadership counselor for a council of 25 members over 6 days to deliver transformational leadership activities, engaging in discussions on privilege, multicultural intergroup dialogue, inclusivity, and diversity.
- Selected as one of 20 new members from over 300 applicants and appointed as Membership Chair in the first year.

Kappa Theta Pi Professional Technology Fraternity   ***January 2024 – Present***
Vice President of Membership   *Ann Arbor, MI*
- Increased diversity of new member class by 39% through outreach to 30 professors, 20 student organizations, and campus-wide marketing, achieving a record-breaking number of applicants since Kappa Theta Pi's inception.
- Coordinated 12 recruitment events, organizing plans for over 400 active members and recruits and guided integration of new members, ensuring emphasis on DEI and professional development opportunities.

Skills

- **Languages:** C++, C, Python, Java, JavaScript, CSS, HTML, R, Dart, Swift, x86-64 Assembly, ARM Assembly
- **Frameworks, Libraries, Tools:** Flask, Flutter, PyTorch, TensorFlow, NumPy, Pandas, Firebase, Git, Node, React, Node.js
- **Technologies:** Power Automate, PowerBI, Power Apps, Power Virtual Agents, Azure, UIPath, RESTful APIs, MySQL