

ANN STONE

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EDUCATION

Sep 2024 – **University of Michigan Ann Arbor - Graduate**

Apr 2025 *M.S.E. in Computer Science*

Sep 2020 – **University of Michigan Ann Arbor - Undergraduate**

Apr 2024 *B.S.E. in Computer Science*

- GPA – 3.65 / 4.00
- Relevant Courses – Data Structures and Algorithms, Database Management Systems, Computer Organization, Discrete Mathematics, Multidisciplinary Software Development 1 and 2, Machine Learning, Advanced Operating Systems, Web Systems, Digital Product Design (FA23), Startup Sales (FA23), Organization Management in Startups (FA23)

TECHNICAL SKILLS

C++, C, Python, Java, SQL, Scala, Spark, Hadoop, React, JavaScript, HTML, CSS, GIT, Flutter, Dart

WORK EXPERIENCE

Aug 2023 – **Operating Systems Instructor's Assistant (IA), University of Michigan College of Engineering**

- Answer student questions about multithreading and debugging during office hours **(C++)**
- Work with other IAs to develop and grade student exams
- Teach 1 hour weekly discussions and answer questions for 25 student lab **(C++)**

June 2023 – **Software Engineering Intern, American Express - Sunrise, FL**

- Collaborated in a team of 4 interns to code a data analytics page for the customer360 portal, where 2 interns were frontend and 2 were backend
- Learned React redux to implement state management for the frontend
- Achieved 100% jest code coverages for unit tests
- Held Vertical Design Reviews to discuss how frontend and backend would interact

Jan 2023 – **Software Engineering Intern, Square - Remote**

- Complete tasks on Conversations team backlog for the M+ release in June 2023, including working with the frontend API, Facebook API, and updating protos **(Java, Mockito)**
- Wrote a design document for call forwarding so buyers can call merchants through Square
- Worked with the notifications-infrastructure team to implement call forwarding **(Java)**

Jan 2022 – **Big Data Engineering Intern and Project Planner, Union Pacific - Omaha, NE**

- Created new data pipeline to extract, transform, and load 10,000,000+ daily railcar messages using functional programming and multithreading **(SQL, Scala, Spark, Hadoop, GIT, Linux)**
- Worked with finance team to create a data analysis report on financial benefits of the data pipeline and potential uses for the pipeline
- Kept project on track by setting long term goals, short term goals, and plans for Executive Summaries and Design Review presentations

Oct 2021 – **Programming and Data Structures Instructor's Assistant (IA), University of Michigan College of Engineering**

- Answer student questions about coding concepts and debugging during office hours **(C++)**
- Work with other IAs to develop and grade 200+ student exams **(C++)**
- Teach 2 hour weekly lecture reviews and answer questions for 25 student lab **(C++)**

May 2021 – **Customer Specialist and Consultant, Best Buy – Austin, TX**

- Consulted customers on products that solve their issues
- Earned "Customer Obsessed" award for excellent customer service

PROJECTS

- June 2023 – **Ann Stone's Personal Website**
- Sep 2023
- Designed and implemented a website to hold my experiences, projects, and hobbies (**Flutter, Dart**)
 - Learned Flutter and Dart using Flutter textbooks to code the website
- Aug 2022 – **Frequently Asked Questions Data Analyzer for Piazza** (website where students post questions and instructors respond)
- Present
- Reverse Engineer Piazza API calls to extract student questions and instructor responses (**Python**)
 - Developing machine learning algorithm that analyses the extracted questions to find the most frequently asked questions (**Python**)
 - Using analysis of Piazza data to decrease duplicate student posts by implementing procedural changes for students and IAs
- Dec 2021 **IBM Moving Average Analyzer**
- Used Historic IBM data to plot stock prices (**Python**)
 - Graphed the market returns of a moving average strategy for short and long positions (**Python**)
- Sep 2020 – **25895 Arcadia Drive Promo Website**
- Dec 2020
- Developed a website used to promote my family home before moving (**React, JavaScript**)
- Sep 2019 – **Sketch N' Hatch**
- Mar 2020
- Worked in a team of 15 students to brainstorm, develop, and produce a fun workbook that encourages inventing and entrepreneurship in children
 - Met with students at elementary schools to get their ideas and stories that build the workbook
 - Sold book at a local Macy's store
- Sep 2019 – **FamFoodie**
- Mar 2020
- Recipe saving website where recipes are shared between family members and can be rated by each member to find the perfect family recipes (**React, JavaScript, Python**)
 - Designed database and did market research with guidance of industry mentor
- Sep 2018 – **Irenic**
- Mar 2019
- Individually programmed website that uses binaural beats to soothe anxiety (**HTML, CSS, JavaScript**)
 - Designed by team of 3 students for HOSA project

LEADERSHIP

- Mar 2022 – **Piazza Lead for Programming and Data Structures Instructor's Assistant Team**
- Present
- Ensure IAs are timely and accurately answering student questions on Piazza, a website where students post questions and instructors respond
 - Improve Piazza folder structure and pinned posts to efficiently deliver students information
- Sep 2021 – **Social Chair and Dance Company Member, Outrage Dance Company**
- Present
- Enhance team bonding by organizing social events
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