Jonhan Chen

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Education

University of Michigan, M.S.E. Computer Science — Aug 2023 - May 2024
University of Michigan, B.S.E. Computer Science — Aug 2020 - May 2023

GPA: 3.72/4.00 (Undergrad) | Dean's List | University Honors | Magna Cum Laude
Clubs: Vice President of Tau Beta Pi, Premiere Engineering Honor Society | MHackers | Google Student Developer Club
Director of the University of Michigan Fall 2022 Engineering Career Fair | Michigan Student AI Laboratory
Courses: Data Structures and Algorithms | Web Systems | Database Management Systems | Introduction to AI / ML
Computer Security | UI Design | Data Science | Computer Organization | Parallel Computing | Compilers

Experience

Amazon, San Francisco, CA — May 2023 - Aug 2023
Software Development Engineer Intern

- Removed over 200,000 irrelevant product detail listings on Amazon.com clothing items, vastly enhancing the accuracy of clothing sizing information on the production website.
- Built / Architected a database used by 100,000+ sellers on the Amazon Sellers Central site, by migrating 1.1 TB of product data using DynamoDB, OpenSearch, Andes Datalake, Athena, and S3.
- Implemented an API to interface with OpenSearch Database, automating querying and saving 50+ hours of engineering time with AWS services like Lambda, CloudWatch, CloudFormation and various Java libraries.

Amazon Web Services, Arlington, VA — May 2022 - Aug 2022
Software Development Engineer Intern

- Coded and maintained a dynamic front-end dashboard with OpenSearch and Kibana, and integrated this tool into Amazon's internal wiki platform to be utilized by over 75+ employees.
- Saved 85+ hours per year by automating 10+ Python and Bash Scripts through designing a full-stack data pipeline and dashboard to monitor infrastructure errors and increase overall efficiency of AWS Regional Builds
- Utilized REST APIs to interact with a NoSQL database, to extract, clean, and transform over 50 GB of API data per month using AWS Lambda, CloudWatch, and OpenSearch.

Ricardo, Van Buren, MI — May 2021 - Aug 2021
Software Engineer Intern

- Implemented a front to end DevOps Pipeline at Ricardo with Gitlab CI/CD, OpenCV (C++), Google Test, g++, and Docker, for 5+ employees within a $20,000+ Harley Davidson consulting contract.

Aflac, Ann Arbor, MI — Nov 2020 - Aug 2021
Information Technology Intern

- Led intern team to write and present an Android application used by over 10 agents to assist with managing client-related tasks, improving employee response effectiveness by over 60%.
- Analyzed sales data statistics with R to advise management, leading to increased call efficiency for over 15 employees and attracting 50+ new clients over previous weeks.

Projects

Social Media Website, *Dive.fyi* — Aug 2020 - 2021

- Integrated ElasticSearch database into the website's search bar; storing, indexing, and providing queryable access to over 50 GB of post data.
- Co-developed website's core infrastructure and front end by implementing post creation, feed recommendations and profile creation for over 150 incoming users using HTML, CSS, Python, AWS, and SQL.

Skills

C++ | Java | Python | SQL | NoSQL | Bash | Gitlab CI/CD | Google Test | Docker | ARM Assembly | AWS Lambda | AWS OpenSearch / ElasticSearch | AWS EventBridge | AWS CloudWatch | AWS DynamoDB