Anthony Pasala

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Education

Texas A&M University   **August 2021 – May 2024**
Bachelor of Science in Computer Science, GPA: 3.82   *College Station, TX*

Relevant Coursework

- Data Structures and Algorithms
- Computer Architecture
- Operating Systems
- Software Engineering
- Algorithm Analysis (graduate)
- Mathematical Statistics (graduate)

Technical Skills

Languages: Java, Python, C++, C, JavaScript, TypeScript, HTML, CSS, PostgreSQL, MySQL
Web Development: Node.js, Express.js, React.js, Next.js, Vue.js, Redux Toolkit, Jest, Axios, testcontainers, @databases
DevOps Tools: Git, Docker, NGINX, Flyway, Redis, Apache Kafka, Jenkins, AWS

Experience

ASTRO Lab at A&M   **August 2021 –**
Software Engineer / Team Lead   *College Station, TX*

- Leading a team of students responsible for designing web app for the lab's SpaceCRAFT simulator application
- Developing with the PERN stack: PostgreSQL, Express.js, Node.js, and React.js with Next.js
- Focusing on test-driven development via model, integration, and API testing with Jest and Jenkins
- Managing development environment with Docker and using GitHub for version control
- Optimizing query time and managing user metrics with Redis cache and Pub/Sub protocol
- Implementing group chat system and activity stream with Apache Kafka
- Using the iterative development model as a guide while deploying and DevOps with AWS EC2 and S3

Certifications

Coursera Specializations   **August 2022 –**

- Deep Learning: Learning fundamental neural network models and optimization techniques with TensorFlow
- Machine Learning: Supervised and Unsupervised learning, best AI practices and innovation techniques
- MLOps: Designing ML production system using CI/CD pipelines and models

Master the Mainframe   **December 2019**

- Learned the basics of utilizing IBM's mainframes
- Finished Part 2 and 3 of the contest

Projects

Personal Website | *HTML, CSS, JavaScript*   **September 2022**

- Implemented responsive design using CSS transition and animation properties
- Used JavaScript's IntersectionObserver for scroll-linked transitions

Pipelined Processer | *y86, Logisim*   **May 2022**

- Designed 32-bit pipelined processor in Logisim that accepts y86 assembly language files

Involvements

AI4ALL   **September 2022 –**

- Started 10-week program to learn about the fundamentals and ethical use of AI

TAMU ThinkTank   **August 2022 –**

- Developing responsive website using Vue.js to showcase the organization

Computer Science Club   **August 2018 – May 2019**

- Practiced Java data structures and algorithms