Andrew Sassine

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Education

Wayne State University, College of Engineering Detroit, MI
Bachelor of Science, Computer Science GPA: 3.41/4.00 (Dean's List 4 semesters) December 2024
Relevant Coursework: Java Programming, Artificial Intelligence, Computer Operating Systems, Mobile Application Development, Algorithm Design and Analysis

Experience

Sentry Insurance Stevens Point, WI

Software Engineer Intern May 2024 – August 2024

- Engineered the Quartermaster dashboard using ASP.NET, Vue.js, and SQL, empowering an 800+ member IT department to customize, manage assets, and collaborate on dashboards through advanced CRUD functionalities
- Designed and implemented 16 API endpoints with ASP.NET and C#, integrating complex backend services to ensure robust and scalable dashboard operations
- Conducted comprehensive surveys with over 50 IT employees across 10 teams, synthesizing their feedback to inform and refine dashboard features
- Implemented a unique configuration for each IT team, allowing members to find important assets 5 minutes faster.
- Collaborated within a diverse tech stack including C#, ASP.NET, Vue.js, Bitbucket, Jenkins, Artifactory, Docker, AWS, and Terraform, gaining full-stack development experience
- Lead a team of 6 interns to 1st place in a case competition on the topic of "Leveraging AI in Human Resources"

Projects

Sports Card Marketplace Platform
Full Stack Personal Project (MySQL, JavaScript, Node.js, Next.js, Redis, AWS)

- Implemented a robust web scraping application using Node.js to efficiently extract and process data from a sports card database, accumulating over 8,000,000 unique rows of detailed card data
- Designed and set up a scalable, relational database using MySQL, enabling efficient storage, retrieval and management.
- Developed a user-friendly web interface using Next.js, providing third-party sellers with the ability to create accounts, and manage and sell their inventory
- Incorporated dynamic search and filtering functionalities with Redis caching, allowing buyers to easily discover specific sports cards based on various criteria among 8,000,000 cards in less than 1 second
- Deployed the database and hosted the server via Amazon Web Services RDS and EC2 in a cost-efficient manner

Image Recognition Machine
Deep Learning / Machine Learning Model (TensorFlow, Keras, Numpy, Jupyter, Python)

- Trained a dataset of 15,000 unique images using convolutional neural networks (CNN's)
- Implemented transfer learning by utilizing a pre-trained model as a feature extractor and fine-tuning the last layers
- Conducted extensive hyperparameter tuning to optimize model performance and achieve 98% accuracy

Skills

- **Python | Java | JavaScript | C++ | MySQL | C# | React.js | Next.js | ASP.NET | Vue.js | Node.js**
- **Cloud Computing | AWS | OOP | Algorithms | GCP | Agile Methodologies | Git | CI/CD**
- **TensorFlow | Keras | CNN | Numpy | Virtualization | Frontend | Backend | Full-Stack | Arduino**