

Joseph Holm

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EDUCATION

Arizona State University
Computer Science - BS: 4.0 GPA

Tempe, AZ
Expected 2027

EXPERIENCE

Software Developer's Association (SoDA)

Oct. 2024 — Present

Software Development Intern

Tempe, AZ

- Achieved **84%** increase in user engagement by developing a social media message retrieval system using **Vue** and **Vite** that enables users to send and receive Instagram and WhatsApp messages through a dynamic web interface
- Achieved **87%** faster page load times by building a responsive frontend interface using **Vue.js** and **Tailwind CSS**, implementing dynamic routing and Vuex state management for optimized component rendering
- Developed **RESTful API** endpoints using **Express.js** and **Node.js** for secure message retrieval and processing, implementing custom middleware for data transformation
- Implemented client-side caching and WebSocket connections using Socket.io and **Vue's Composition API** for real-time message updates, ensuring seamless message delivery and reducing API calls by batching requests

Banner Health

Mar. 2023 — Apr. 2023

Software Engineer Intern

Surprise, AZ

- Reduced processing time by **60%** for over **1000** healthcare clients using Python and SS&C Blue Prism
- Collaborated with senior software engineers on enterprise-scale automation initiatives, implementing best practices in version control, code review, and agile development methodologies
- Accelerated bot development cycles by **40%** by architected reusable backend script templates and standardized schemas, improving code maintainability across the automation platform

PROJECTS

LearnAI | *React, Next.js, Express.js, Node.js, TypeScript, MongoDB*

Aug. 2024 – Present

- Achieved **35-80%** higher retention rates through AI-powered learning platform built with **Next.js** and **React**, featuring structured course modules and personalized learning paths
- Increased user engagement by **98%** through implementation of OpenAI API for automated content generation, resulting in enhanced quiz completion rates and interactive video integration
- Drove **80%** improvement in content relevancy through dynamic YouTube content filtering system, leveraging OpenAI's assistant and Analytics API to optimize educational video recommendations

Trustify | *Vue, JavaScript, Python, FastAPI*

Oct. 2024

- Reduced fraud risk by **42%** through Chrome extension development, implementing ML-based scoring algorithms to evaluate seller credibility and detect suspicious patterns
- Increased user trust by **85%** via interactive **Vue.js** interface displaying comprehensive analytics, processing over **200,000** seller data points monthly for accurate risk assessment
- Achieved **93%** accuracy in fraud detection through custom **JavaScript** content scripts, automatically analyzing real-time seller data and flagging high-risk behaviors across Amazon marketplace

Sunhacks '24 | *findit.* | *Vue, Python, JavaScript, FastAPI, MongoDB*

Sep. 2024

- Winner of **Sunhacks 2024** by engineering vector-based product search functionality using **MongoDB Atlas** for efficient query processing and scalable data management
- Developed a retrieval-augmented generation (RAG) system using **FastAPI** endpoints that enabled real-time **AI-powered** product recommendations by integrating with **MongoDB Atlas Search**
- Built an advanced chat interface using **Vue.js** that integrates with a fine-tuned **language model** for semantic product matching, implementing custom embeddings and vector-based search algorithms

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C/C++, Java, MATLAB, SQL, HTML/CSS

Frameworks & Libraries: React, Vue, Next.js, Express.js, Node.js, Flask, FastAPI, Tailwind CSS, MongoDB

Developer Tools: Git, GitHub, GitLabs, Docker, Jenkins, Jira, Selenium, Google Cloud Platform, RESTful APIs