

Joey Faris

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SOFTWARE ENGINEER

Highly skilled software developer with a strong foundation in full-stack development, experienced in building and deploying scalable applications using JavaScript, React, Node.js, and AWS. Adept at collaborating in Agile environments, with expertise in front-end development, RESTful API design, cloud infrastructure, and containerization. Always expanding technical expertise and striving to grow as an engineer to stay at the forefront of the quickly evolving industry.

TECHNICAL SKILLS

Javascript, React, Redux, HTML, CSS, Tailwind, Material UI, Node, Python, Java, SQL, PostgreSQL, MongoDB, REST APIs, Unit Testing, Docker, Git, Github, BitBucket, AWS (EC2, S3, Lambda), pgAdmin, JIRA, VSCode, Postman, Insomnia

EDUCATION

California Polytechnic State University, San Luis Obispo	San Luis Obispo, CA
Bachelor's Degree in Business Administration	September 2015 - June 2019

Flatiron School	Online
Full Stack Web Development, Javascript and Ruby on Rails program	June 2022 - September 2022

EXPERIENCE

Pycube, Inc.	Remote
Software Engineer	November 2022 - Present

- Developed front-end applications with JavaScript, React, Redux, HTML, and CSS for engaging user interfaces.
- Implemented server-side logic and RESTful APIs using Node.js, Express.js, PostgreSQL, and MongoDB for efficient data management.
- Containerized applications with Docker for consistent development and deployment environments.
- Managed version control with Git and collaborated on codebases using BitBucket for efficient code review.
- Deployed applications on AWS infrastructure (EC2, S3, Lambda) for scalable and reliable cloud hosting.
- Leveraged Redux Toolkit (RTK) and RTK Query for centralized state management, optimized data fetching, and automatic cache invalidation, reducing boilerplate code and improving application performance.

MonteFiore Medical Center (Pycube, Inc. Contract)	June 2023 - Present
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- Implemented an invoice validation service using a five-step processing workflow using React hooks and Redux.
- Collaborated closely with graphic designers to translate their Figma designs into interactive and visually appealing front-end implementations.
- Designed and implemented API endpoints using Express.js, applying the MVC design pattern for structured layer-wise functionality.
- Integrated SharePoint APIs with OAuth for online excel correction.
- Deployed and managed applications on AWS, utilizing services such as EC2, S3, and Lambda for scalable and reliable cloud infrastructure.
- Collaborated with the DevOps team to design and configure the CI/CD pipeline, streamlining the development process.
- Participated in a Scrum team and Agile Practices including: Test-Driven Development (TDD), Behavior-Driven Development (BDD) and pair programming.

Baylor Scott & White Health (Pycube, Inc. Contract)	November 2022 - June 2023
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- Implemented metrics (Asset Usage, Asset Cycles, Asset Path, Asset Inventory) using MongoDB aggregation pipeline and Express.js for API development.
- Successfully implemented dashboard components using React hooks for effective data visualization and user interaction.
- Optimized JavaScript code for faster load times and smoother user experiences, employing techniques such as lazy loading, code splitting, and minimizing network requests.
- Utilized JIRA for project management, task tracking, and issue resolution, resulting in streamlined workflows and enhanced productivity within our team.
- Used Docker to define and create applications by encapsulating them in containers.
- Presented weekly progress reports and demos to managers and C-level personnel, providing updates on development progress and collaborating with them to craft future roadmap and address any feedback they had about the product.

Projects

Docker Optimizer

[Github](#)

- Developed a Python-based Docker image analyzer that reduced container sizes by up to 70% through dynamic file access tracking and layer optimization analysis, leveraging the Docker SDK and system-level tracing tools.
- Implemented comprehensive security scanning functionality to detect exposed ports, root processes, and sensitive environment variables, enhancing container security compliance
- Implemented multi-stage build optimization and layer analysis to minimize container bloat, focusing on reducing cold start times in cloud environments and CI/CD pipeline efficiency.
- Created an interactive CLI interface using Rich and Inquirer libraries, providing real-time analysis progress and formatted results for improved user experience

Scothing

[Github](#)

- Developed a full-stack clothing classification application using PyTorch, FastAPI, and React, leveraging ResNet50 architecture to accurately classify 10 distinct clothing categories with weighted F1-score metrics
- Implemented a containerized microservices architecture using Docker and Docker Compose, enabling seamless deployment and scalability of the machine learning model, API, and frontend components
- Engineered a robust model evaluation pipeline incorporating precision, recall, and F1 metrics, with automated training scripts and comprehensive error handling for production reliability

Facetracker

[Github](#)

- Developed a real-time face and hand landmark detection application using Python, OpenCV, and MediaPipe, enhancing user experience with accurate facial and hand tracking features.
- Implemented a model download and validation system that verifies the presence of face and hand landmark models, ensuring smooth setup and efficient resource management.
- Integrated FPS (frames per second) display functionality to monitor real-time processing performance, optimizing user experience with seamless visual feedback.
- Built cross-platform compatibility checks for camera permissions, improving accessibility across macOS, Windows, and Linux operating systems.

Twitter / X Bot

[Link](#) | [Github](#)

- Engineered sophisticated prompt templates to generate technically accurate content across multiple domains (AI, Quantum Mechanics, Software Engineering).
- Implemented chain-of-thought prompting techniques to ensure logical consistency and depth in generated technical explanations.
- Developed content filtering systems to validate LLM outputs against domain-specific technical criteria and terminology.
- Created prompt frameworks that maintain consistent voice and style while discussing complex technical concepts.