MATTHEW FEROZ

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EXPERIENCE

L3Harris: *Software Engineer* 06/2024 - Present

- Streamlined multiple satellite software systems into a unified C# application, eliminating time-consuming reset procedures and minimizing latency to achieve 10% faster overall application execution.
- Automated Jenkins deployment pipelines through Bitbucket, integrating BlackDuck for security scanning, reducing project build time by 13%, and streamlining secure release management to customers.
- Provisioned the connection of 3 databases to Kubernetes-managed virtual machines using VMware Aria Automation, optimizing environment setup to enable parallel development across a team of 5 engineers.
- Spearheaded the L3Harris intern planning committee through managing a budget of over $7000, orchestrating company events, and providing presentations to significantly enhance the internship experience for 32+ interns.

Medidata: *Software Engineer Intern* 05/2023 - 08/2023

- Coordinated collaboration across 4 software teams, identifying a strategic opportunity to enhance the drug life cycle by combining proprietary backend APIs used in pharmaceutical development and factory planning.
- Leveraged Docker sandbox environments to prototype integration concepts for executive leadership, accelerating development of a drug formulation and resource management tool embedded in customer workflows.
- Developed a Confluence UI redesign package in partnership with a cross-functional team for a company competition, placing third place and raising awareness for improved stakeholder communication solutions.

Johnson and Johnson: *Software Development Intern* 08/2022 - 12/2022

- Formulated 50+ foundational user stories, use cases and software requirements for a novel AI regulatory compliance chatbot to reduce company spending on hours billed by subject matter experts and engineers.
- Analyzed sentiment from 800+ user responses using Python and Pandas, delivering key data insights into user experience to provide evidence of project viability, resulting in renewed and continued company investment.
- Implemented FDA-compliant validation protocols within beta version of the software that identified 60% of inquiries involved off-label drug usage, informing priorities on product development and enhancing compliance.

Stevens Institute of Technology: *Makerspace Coordinator* 08/2021 - 05/2024

- Integrated RFID card swipe access to power tools within the Makerspace, enabling the tracking of usage data from 3000+ students to justify investment from school leadership into enhanced tooling and technology.
- Mentored 40+ startup teams across diverse engineering industries in software, hardware, and marketing development, leading to several consulted teams winning a school-wide startup competition.
- Deployed cloud-based 3D printing connectivity across an array of 40+ 3D printers, enabling remote access to reserved printers, resulting in significantly accelerated and more effective project iteration for students.

SKILLS

Programming Languages: Python, C#, C++, SQL, TypeScript, Tailwind, React, Next.js, MongoDB, Pandas, MATLAB
DevOps Tools: Docker, Kubernetes, Jenkins, Google Cloud, Git, Bitbucket, Postman, n8n, Pinecone, Linux, OAuth2

EDUCATION

Stevens Institute of Technology | BS in Biomedical Engineering | 3.53 GPA 05/2024

- Data Structures & Algorithms, Software Architecture & Component Design, Agile Software Development, Software Requirements Development & Analysis, Software Unit Testing, AI in Biomedical Imaging

PROJECTS

Content Research Pipeline | | *n8n, SQL, Google Cloud, VPS Hostinger, APIs* 03/2025

- Engineered an agentic workflow to retrieve and analyze the highest viewed content within a specific niche on all social media platforms via API, reducing research and ideation time for content creators by 20%

LED Photoacoustic Imaging Device | | *C/C++* 05/2024

- Developed a precision-timed microcontroller system to enhance ultrasound imaging devices, bolstering the effectiveness of skin cancer screening whilst also reducing diagnostic costs for patients by 80%.