

James Crovo

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Links

- **Website:** <https://jamescrovo.com>
- **LinkedIn:** <https://linkedin.com/in/jamescrovo>
- **Github:** <https://github.com/JamesAC42>

Summary

I am a seasoned Software Developer with a deep-rooted passion for full-stack engineering, AI, and machine learning. Beginning my professional journey at Aegis Software at 14, I furthered my expertise with a Computer Science degree from RPI and now contribute at Epic Systems. My technical proficiency spans Python, Java, C#, C, C++, node.js, TypeScript, SQL, and React.js, evident in both professional capacities and self-developed projects that attract thousands of users. An avid learner, I make sure to keep myself updated with the latest in web tech and machine learning. Outside of coding, my interests lie in music, chess, and art, reflecting my intrinsic drive to innovate and create.

Skills

- **Languages** - TypeScript, C#, C, C++, Python, Java, Javascript, Haskell, PHP
- **Frameworks and Tools** - React.js, redis, SQL, PostgreSQL, Svelte, Tailwind, SCSS, Angular.js, Blazor, node.js, express.js, nginx, Apache, Linux
- **Professional** - Leadership and Team Management, Data analysis, Project Planning, Open Source Development, Agile and Scrum

Experience

Epic Systems | Verona, WI

Software Developer | 07/2022 - Present

- Spearheaded the migration of legacy VB systems to modern React.js-based platforms, enhancing UI/UX and improving system performance.
- Designed and implemented advanced document management functionalities, streamlining health information workflows and increasing operational efficiency.
- Orchestrated a pivotal transition of healthcare database architecture, optimizing data structures for faster retrieval and reduced resource consumption.
- Address and resolve critical bugs and introduce quality-of-life improvements for CI/CD pipelines.
- Collaborate with cross-functional teams to translate technical requirements into robust application features, ensuring alignment with industry best practices and business objectives.

Aegis Software | Horsham, PA

Software Engineer | 05/2016 - 04/2022

- Expertise in facilitating software transitions and mobile application development using Microsoft's Blazor framework, evidenced by enhancing on-site personnel mobility and efficiency through a user-friendly mobile app transformation.
- Proven ability in pioneering and spearheading cutting-edge software tools for internal network load testing, automated regression testing, and real-time analytics during stress testing, significantly bolstering performance integrity and quality control.
- Demonstrated skill in integrating advanced business intelligence APIs and engineering cost-effective, performance-enhancing solutions like a Raspberry Pi-based machine head unit, enriching the company's analytical software suite and revolutionizing production cost efficiency.

Education

Rensselaer Polytechnic Institute | Troy

Bachelor of Science in Computer Science | 04/2022

- Bachelor of Science in Computer Science -- Focus on Machine Learning and AI - Minor in Economics -- Summa Cum Laude, 3.94 GPA -- UPE CS Honors Society Member

- Relevant Courses – Machine Learning, Data Mining, Intro to AI, Programming Languages, Software Principles, Algorithms, Data Structures, Open Source Development, Quantum Mechanics, Linear Algebra
- Secretary and Co-President of Circle K Service Club – Helped lead many diverse initiatives including food drives, park cleanups, and fundraisers. I fostered a supportive community while organizing impactful and fun events. As a club, we made a lasting difference, raising thousands of dollars for various charities and building strong connections throughout college

Projects

- NASFAQ – <https://nasfaq.biz> – Creator and lead developer, a stock market simulation game based on live performance of Youtube channels with thousands of registered users and an active fan base.
- Visualizd – software for organizing machine learning datasets – Integral contributor to the design and development of the user interface – Made use of Svelte, JavaScript, TypeScript, and SCSS
- Sage – Created and led a project team of 4 members on the development of Sage, a web application for real time data analytics based on REST endpoints – Made use of node.js, redis, PostgreSQL, express.js, React.js, and TypeScript
- EscapeRoomMaker – Created and managed project team of 5 people to develop community-based interactive escape room website. Developed and deployed in 12 weeks using Agile and Scrum methodologies.
- Redis Demo – Designed and developed an immersive website demonstrating the robust functionality of Redis, a cutting-edge data structure server. As an educational tool, it enabled me to effectively teach and engage a class of peers on Redis concepts. (https://github.com/JamesAC42/redis_demo)
- Hatsumei – Website of other miscellaneous personal projects (hatsumei.pro)