

Jim Carnicelli

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Summary

I am a full-stack software engineer. I've designed, coded, tested, and documented software for many years. I've created proprietary UI, database, and other frameworks. I've trained many developers on technologies and problem solving strategies. I've managed small and medium (10+) teams of developers, including offshore. And I've been a small business owner in the IT field.

I am currently focused largely on web based UIs with a focus on the now dominant React framework. But I also have unusual skills in VR, artificial intelligence, data mining, 2D/3D graphics, visual arts, and more.

Skills

- **Programming languages:** TypeScript, JavaScript, C#, Python, C++, Java
- **Databases:** PostgreSQL, Sql Server, mySQL, mongoDB
- **Frameworks:** Next.js, React, Entity Framework, SCSS, Tailwind CSS
- **Process:** Docker, Kubernetes, GitHub, Team Server
- **Teamwork:** Mentoring, team leadership, documentation, project management
- **Miscellany:** Virtual reality, machine learning, visual arts, HL7

Example projects

- **SHD website:** (2023) Developed a complete website using Next.js, React, and Postgres from scratch.
- **TSIS:** (2022-2023) Developed a React-based UI and integration with a C#, Entity Framework, and Postgres back end.
- **SbPAM:** (2019-2020) Updated a React-based UI and integration with a C#, Entity Framework, and Postgres back end.
- **AI research:** (2016) 6-month NLP project. Engineered neural networks and other classifier systems. Processed Brown, Wikipedia, and other corpuses. Heavy C++, C#, JavaScript.
- **Warehouse management system:** (2011-2015) Full ERP suite for manufacturing, wholesale, and transportation. Created framework, developed apps., and managed dev. team.

Recent employment

- 2022 - 2023 - Software Engineer - TSPS - Miami Beach, FL
- 2019 - 2022 - Senior Software Developer - Netwrix Corporation - Madison, WI
- 2016 - 2019 - Independent - Madison, WI
- 2011 - 2016 - Owner / SW eng. - Carnell Automation, LLC - Madison, WI
- 2009 - 2011 - Software Engineer - Amphion Medical Solutions, Inc. - Madison, WI
- 2007 - 2009 - Software Engineer - Pharmacy OneSource, Inc. - Middleton, WI