Richard Simchik

Software Engineer

Overview

Passionate, principled engineer with over a decade of programming experience, including **5 years of professional software engineering**. Graduated from **Rochester Institute of Technology** in 2021. Has a compulsion to explore music through code.

Experience

Software Engineer at Excellus BCBS | Oct 2023 – Present

- Within two months of hire date, took on a solo project to design and implement a greenfield C# program to integrate new vendor data.
- Automated common time sinks: SQL backups, bulk find/replace, support tasks
- Advocated for industry-standard practices that were underrepresented in team culture: version control, pull requests, unit tests, documentation, CLI skills
- Received recognition for unique patience, communication, and collaboration capability in assisting junior colleagues.

Software Engineer at Brand Networks | Jun 2022 – Aug 2023

- Upgraded and maintained two full-stack enterprise social media apps relied on by thousands of retail stores in the US, Canada, and Mexico.
- Collaborated on agile teams of 3 to 10 engineers.

Application Developer at Rich Products | Aug 2018 – May 2019

- Implemented dynamic seating system for static campus map.
- Designed and built a new internal app for managing links to web resources.

Projects

REACH CKD | Dec 2023 – Mar 2024

Batch job that integrated over two thousand vendor records weekly.

- Wrote technical specification to meet the given set of requirements.
  - Used UML class and sequence diagrams to document planned code.
  - Enforced strict seperation between business logic and volatile I/O code.
  - Presented specification to group of 40 peers for approval.
- Implemented the C# application within deadline.
- Skills: C#, SQL, requirements analysis, software design, technical writing

My Local Social | Jun 2022 – Apr 2023

Social media advertising platform for enterprise customers.

- Set up React project to replace legacy AngularJS admin panel.
  - OAuth implementation, initial repository setup, server infrastructure
- Researched audio recognition solutions for client brand safety.
- Provided engineering support for user-submitted issues.
- Skills: JavaScript, React, React Native, ExpressJS, Docker, Azure, Jenkins, Loggly, large-scale agile, customer support

Personal Projects (find more on GitLab)

Arpeggiator | 2023 | https://www.gitlab.com/rsimchik1/RustAudioSandbox

Synthesizes arpeggios given a key, mode, and chords in roman numeral notation.

- Skills: Rust, DSP, music theory

Melodious | 2021 | https://www.gitlab.com/rsimchik1/Melodious

Desktop app for mixing music from stems. Senior capstone project at RIT.

- Skills: C++, JUCE, DSP, project management, requirements gathering

Education

Rochester Institute of Technology | Aug 2016 – Aug 2021

B.S. in Individual Studies (Software Engineering and Music)

Personal Info

Location: near Syracuse, NY
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GitLab: rsimchik1
LinkedIn: richard-simchik

Hard Skills

Programming Languages
C#, SQL, JS/HTML/CSS, Python, Bash, Rust, C++, C

Tools
Git, Vim, Docker, Azure, Postman, ServiceNow, Dynatrace, Control-M

Web Development
.NET Core, React, React Native, Angular, Svelte, ExpressJS

Audio Programming
DSP, JUCE, VST, LV2, MIDI

Software Architecture
OOP, Design Patterns, UML

Operating Systems
Windows, Linux, MacOS

Soft Skills

Social
Interpersonal Skills
Technical Writing
Customer Support
Public Speaking

Engineering
Process Automation
Independence
Attention to Detail
Adaptability
Resilience

Project Management
Agile Methodology
Technical Documentation
Requirements Gathering