

Joseph Nechleba

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EDUCATION

Cornell University, B.A. Computer Science, GPA: 3.7

Ithaca, NY May 2019

Relevant Courses: Object-Oriented Programming • Data-Driven Web Applications • Operating Systems • Machine Learning • Functional Programming • Systems Design • Algorithms • Networks • Linear Algebra • Multivariable Calculus • Discrete Structures

SKILLS

Technical: Angular • React • TypeScript • JavaScript • Node.js • Python • Java • HTML • CSS • SQL • Bash • C • MongoDB • D3.js • Git • Perforce

Language: English (Native)

PROJECTS AND EXPERIENCE

InterSystems – Senior Software Developer:

Boston, MA | July 2019 - July 2022

- Spearheaded development of a reusable Angular component library, improving UI consistency and accelerating cross-project development for HealthShare
- Modernized legacy AngularJS Clinical Visualizations app to Angular, reducing build size by 10MB and improving performance
- Developed D3.js clinical viewer for patient data, dynamic iframe-based client app container, and patient search interface

Vimbly – Full Stack Developer Intern:

New York, NY | Summer 2018

- Built SQL models, Node middleware, and corresponding React components for Catch Fashion e-commerce platform

Teaching Assistant – Object Oriented Programming in Java

Ithaca, NY | Sep 2016 - May 2018

- Provided student support through office hours
- Created [HyperText Search](#) tool to help students master OOP and Java concepts

Portfolio Website: <https://www.josephnechleba.com>

Erie, PA Jan 2023-Present

MEAN Stack:

- [Fractal](#): JS visual of Mandelbrot Set with Zoom/Screenshot, using WebWorkers for optimized parallel computation
- [User Sign Up/Login](#): Implemented full stack JWT Authentication API on NodeJS/Mongoose backend for secure user session management
- [Connected Graph Stars](#): CanvasSketch code-as-art passion project
- Other Features: mobile-first, i18n translation, breadcrumbs, dark/light mode

Sabbatical

June 2022 - Jan 2025

- Circumnavigated the globe through 19 countries to fulfill a lifelong traveling dream
- Freelanced a website for local Italian restaurant [trattoriapellliccia.it](#) with i18n translation, increasing tourist visibility and contributing to significant customer growth

OTHER INTERESTS

Taekwondo • Travel • Guitar