

Joseph Nechleba

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<https://josephnechleba.com>



<https://github.com/jnech1997>

EDUCATION

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

Ithaca, NY May 2019

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

SKILLS

Technical: Angular • React • Python • Javascript/Typescript • NodeJS • Java • D3.js • HTML • CSS • MySQL • Material UI • Express • Bash • C • NoSQL • MongoDB • NumPy • Git • CoPilot
Language: English (Native) - French (Limited Working Proficiency)

WORK EXPERIENCE AND PROJECTS

InterSystems Senior Software Developer:

Boston, MA July 2019 - July 2022

- Full Stack Developer for Clinical Visualizations team (Agile/Scrum): developed customizable Angular library mobile-first components and UIs for use across [InterSystems HealthShare](#), improving usability and integration
- Rebuilt hybrid AngularJS/Angular Clinical Visualizations app in pure Angular, decreasing project size significantly while enhancing performance
- Coded D3.js clinical viewer for patient data, dynamic iframe client app container, and patient search UI, enabling patient data aggregation across ISC applications

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

Erie, PA Jan 2023-Present

Angular19/NodeJS/MongoDB/Heroku SPA Stack:

- [Fractal](#): Visualization of Mandelbrot Set with Zoom/Screenshot, using CanvasSketch/Tweakpane for display and WebWorkers to parallel process Mandelbrot calculations
- [User Login/Register](#): built JSON Webtoken auth API in NodeJS, with MongoDB data store and Material login/register/profile components for user session management
- [Connected Graph Stars](#): CanvasSketch/JS code-as-art passion project
- Other Features: mobile-first, routing, i18n translation, breadcrumbs, dark/light mode

Sabbatical:

July 2022 - Jan 2025

- Traveled a full circle around the globe to fulfill a lifelong dream: from Jamaica to Costa Rica, Peru, Argentina, Morocco, Spain, France, Italy, Austria, Germany, India, Thailand, Indonesia, Vietnam, Japan, Hawaii, and Mexico

Vimby Full Stack Developer Internship:

New York, NY Summer 2018

- Developed Order History/Detail views and SQL models, from Zeplin wireframes to functional React components, as well as a Kakao talk phone number verification system for E-Commerce site Catch Fashion

TA for CS 2110: Object Oriented Programming in Java

Ithaca, NY Sep 2016 - May 2018

- Held office hours, graded assignments, and built HyperText Search to help students reference and memorize important OOP/JAVA concepts:
<https://www.cs.cornell.edu/courses/cs2110/2017fa/online/definitions.html>

OTHER

Cornell Sport Taekwondo: Captain • 2019 Marx Memorial Prize • French Language House