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)

EXPERIENCE AND PROJECTS

InterSystems Senior Software Developer: *Boston, MA July 2019 - July 2022*
- Full Stack Developer for Clinical Visualizations team (Agile/Scrum): focused on customizable Angular library mobile-first components and UIs for use across InterSystems HealthShare, improving usability and consistency
- Rebuilt hybrid AngularJS Clinical Visualizations app in pure Angular, decreasing project size by 10MB and significantly 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:* 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, 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, Sweden, Spain, France, Italy, Austria, Germany, India, Thailand, Indonesia, Vietnam, Japan, Hawaii, and Mexico

Vimbly 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