

Joseph Nechleba

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<https://josephnechleba.com>



<https://github.com/jnech1997>

EDUCATION

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

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:

July 2019 - July 2022

- Developed customizable Angular library mobile-first components and UIs for use across all [InterSystems HealthShare](#) applications, integrating with backend
- Rebuilt hybrid AngularJS/Angular Clinical Visualizations app in pure Angular, decreasing project size from 18MB to 2.5MB
- Handled client crises and coded features such as a D3.js patient health data chart for clinicians, iframe external server client app container, and patient search UI

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

January 2023-Present

- *Angular19/NodeJS/MongoDB/Heroku:*
 - [User Login/Register](#): built Angular Material UI, NodeJS REST server with JSON web token authentication and MongoDB user model data store for secure user session management
 - [Connected Graph Stars](#): CanvasSketch/JS code-as-art passion project
 - [DFS vs BFS D3.js](#): wrote D3.js graph generator showing side-by-side visualization of DFS and BFS to find the path between the start (green) / end (red) nodes in the network

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

Vimbly Full-Stack React Developer:

Summer 2018

- Developed Order History and Detail views and models from Zeplin wireframes to functional React components, including phone number verification system for E-Commerce site Catch Fashion

Cornell Autonomous Systems Lab Research Assistant:

Spring 2019

- Implemented YOLO network and trained custom object detection on mobile robots using Python/ROS: <https://youtu.be/Lyq2RXXD3mE>

TA for CS 2110: Object Oriented Programming in Java

Fall 2016-Spring 2018

- Built HyperText Search:
<https://www.cs.cornell.edu/courses/cs2110/2017fa/online/definitions.html>

OTHER

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