Joseph Nechleba

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https://josephnechleba.com   https://github.com/jnech1997

EDUCATION

Cornell University, College of Arts & Sciences, Ithaca, NY   May 2019
Computer Science, GPA: 3.7

Relevant Courses: Data-Driven Web Applications (Sp18) • Computer Vision (Sp19) • Operating Systems (Sp18) • Machine Learning for Intelligent Systems (Fa18) • Functional Programming (Fa16) • Systems Design and Programming (Sp17) • Algorithms (Fa18) • Artificial Intelligence (Sp18) • Networks (Fa18) • Intermediate Web Development (Sp17) • Unix Scripting (Sp19)

SKILLS

Technical: Javascript • Bash • SQL • Java • Angular • React • C • D3Js • Python • Swift • OCaml
Language: French (5 years)

PROJECTS AND WORK EXPERIENCE

InterSystems Software Developer: Summer 2019-

Cornell Autonomous Systems Lab Research: Spring 2019
- *Implemented YOLO network and trained model with high accuracy on test data for custom object detection on mobile robots using ROS as part of AIDO Competition*

Vimbly Web Developer Intern: Summer 2018
- *Engineered core features for mobile only E-Commerce site www.catchfashion.co.kr*
- *Implemented phone verification system using React, ES6, and Node*
- *Developed order history and order detail pages from Zeplin wireframes to live components*
- *Wrote functionality for product search across categories, brands, name, and gender*

Consultant for CS 2110: Object Oriented Programming   Fall 2016-Spring 2018
- *Built HyperText Search for course website: https://www.cs.cornell.edu/courses/cs2110/2017fa/online/definitions.html*
- *Held weekly Office hours, graded student assignments and exams*

Mac Gesture Ghost-Control *personal project*   Spring 2018
- *Built Swift MacOS Application to give voice and gesture control over desktop space functionality for RIT hack-anywhere hackathon*
- *Demo: https://youtu.be/zvYjYWXh_4Q*

Trie Data Structure *personal project*   Spring 2018
- *Implemented Word Trie Data structure in Java: https://github.com/jnech1997/Trie*
- *Cut time of dictionary search in half compared to linear on word sets > 100,000 words*

Othello in OCaml *Functional Programming final project*   Fall 2016

- *Built GUI interface and connected it to back-end for team based project implementation of Othello in OCaml: https://youtu.be/0mBL0429d9M*

OTHER

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