


# JONATHAN SWANSON

Full Stack Software Developer ◊ Specialty in DevOps and Observability

jonathan.swanson99@pm.me ◊  /jSwanson99

## EDUCATION

### University of Massachusetts Lowell

May 2022

Bachelor of Science in Computer Science, Math Minor

GPA: 3.90 (Major) 3.84 (Overall)

## EXPERIENCE

### Intercontinental Exchange

May 2022 - Present

Full Stack Software Developer

Bedford, MA

- Built full-stack applications using React, Node.js, and Spring Boot
- Led adoption of OpenTelemetry for distributed tracing across multiple application stacks
- Supported applications in production using Splunk, Grafana, OpenTelemetry
- Containerized applications with Podman (Docker)
- Packaged Helm Charts for deployment onto OpenShift
- Promoted from Associate Software Developer to Software Developer (2023)

### Engaging Computing Group - UMass Lowell

May 2019 - May 2022

Front End Developer

Lowell, MA

- Developed frontend components for a browser based IDE called MYR, using React with JavaScript
- Assisted in the development of iSENSE, a data-visualization tool written with Ruby on Rails
- Facilitated transition off of AWS onto on-prem facilities
- Reduced CircleCI build time by implementing dependency caching

### Kronos

Jan 2020 - June 2020

Angular Front End Developer (Co-op)

Lowell, MA

- Developed frontend components in an Agile environment using Angular 8 with Typescript
- Wrote portable code by using a hexagonal architecture
- Used various industry standard libraries & frameworks: ES6 with Typescript, Lodash, RxJS, WebSockets

### Code Wiz

Nov 2017 - May 2018

Programming Tutor

Westford, MA

- Tutored children ages 8-14: Python basics, JavaScript animations
- Worked with children of all needs, from advanced & independent children to those with special needs and learning accommodations

## PERSONAL PROJECTS

### Python & AI

AI knowledge base integrating LLMs via Model Context Protocol

Machine learning stock trend classification & PDF generation cli

### Infrastructure

Kubernetes clusters provisioned with Terraform on Proxmox

### Networking

Network observability pipeline using VYOS, eBPF, and OpenTelemetry

### React

Stock & Options visualization dashboard

## PROFESSIONAL SKILLS

### Languages

TypeScript/JavaScript, Java, Python, Go

### Containers

Docker/Podman, Kubernetes/OpenShift, ArgoCD

### Observability

Production monitoring & debugging using Splunk, Grafana, OpenTelemetry

### SDLC

Git, Jenkins, Jira, Confluence

### Operating Systems

Deploying onto RHEL, Ubuntu; Development on Fedora & MacOS

### Databases

Oracle & Clickhouse; SQL; MinIO (S3)