

# KEVIN OLIVEIRA DOWNING

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Whitinsville, MA 01588 • (508) 244-0583  
kevindowning.contact@gmail.com • www.koliveira.me

## EXPERIENCE

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### Strive, LLC • Massachusetts (Remote) • Full-Stack Developer

(10/2021) - (12/2022)

- Built a React web app to filter and rank candidates/companies with Redux and MUI.
- Written a server with Nest JS, and PostgreSQL as the database
- Developed a web crawler to scrape candidate data on various sites to parse location, companies, and skills.
- Used Github API with GraphQL to further fetch candidate and company data.

### Summit App, LLC • Massachusetts • Software Engineer

(11/2019) - (10/2021)

- Used Scikit to generate polynomial regression models for mapping athlete growth and exponential plateau regression models to calculate muscle resilience to predict performance after fatigue.
- Programmed a Nest JS server that supports streams that sync up user data from previously offline clients.
- Developed a Flutter app under the MVVM architecture with internalization and embedded data through SQLite

### Smart Escape, LLC • Massachusetts • Software Engineer

(10/2018) - (11/2019)

- Programmed a C++ program to deserialize fire panel data to then control ceiling mounted led pointers to signal a safe exit.
- Developed a WPF windows desktop application in C# to create a map of the fire alarms and exits in a building.

## PROJECTS

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### Robotics

- Developed a spline-path following autonomous program with PIDF correction and trapezoidal motion profiling.
- Built a front end interface to track and analyze robot movements such as encoder and gyroscope values.

### Productivity App (Deepspace)

- Developed a React web app with TailwindCSS and redux
- Integrates Firebase and tracks time entries, tasks, projects, and goals

## EDUCATION AND CERTIFICATIONS

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### University of Massachusetts, Amherst • B.S. Computer Science

Graduation Year (2024)

GPA: 3.85

Classes: COMPSCI 320 Software Engineering, COMPSCI 453 Computer Networking

## SKILLS AND AWARDS

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**Languages:** C++/C/C#, Go,SQL, Python, Typescript/Javascript, HTML/CSS, PHP, Ruby, Node JS

**Tools & Libraries:** Scikit, Pandas, Linux (Ubuntu), Digital Electronics, AC/DC Theory, NestJS, React, Puppeteer, Flutter, PostgreSQL, MySQL, MongoDB, Git, Redux, Tailwind, Webpack, Gulp

**Awards:** National Web Design Award (SkillsUSA), FIRST Robotics Engineering Award, FIRST Autonomous Award