Edward (Eddie) Hatfield

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EDUCATION

Tufts University, School of Engineering – Medford, MA, Expected May 2023
- B.S. in Computer Science and Applied Mathematics
- Cumulative GPA: 3.75
- Coursework: Linear Algebra, Set Theory, Numerical Linear Algebra, Data Structures, Algorithms, Discrete Math, Computer Architecture

Sinclair Community College – Summer 2019
- Calculus III

WORK EXPERIENCE

Discover Technologies: Summer Intern – Remote, April 2020 – August 2020
- Assumed the role of a **lone developer** on a small team tasked with bringing our flagship application to mobile using the ServiceNow Now platform, involving **managing a relational database structure and centralizing business logic** to run the same code on both mobile and browser
- **Provided support in sales meetings as a developer** to display our progress to clients; met daily with both sales and requirements engineers to iron out objectives **in a time-sensitive, low-certainty environment**
- Surpassed goal of creating an app purely for demo purposes and instead **fully realized our team's vision well before the deadline with minimal supervision**
- **Wrote company blog posts** detailing what it takes to create a mobile app on the Now platform, along **with tricks and documentation for future maintainers** of the mobile app
- **Created client-facing wrappers** around codebase of Discover's other applications to simplify their use and make them available on ServiceNow's Flow Designer platform; involved recording various demos and meeting with the original developers to **effectively offer every feature in an intuitive way**

Discover Technologies: Summer Intern – Remote, June 2019 – August 2019
- Created widgets that **added functionality** to our client's application, such as a widget that tracks page navigation and a widget that displays other widgets inside a pop-up panel
- **Presented weekly** on progress to the Requirements, Quality Assurance, and Sales teams and **participated in daily scrum meetings**
- Tracked the app's current behavior to update how well the roles and permissions were matching our requirements, then used this data to **create a quick solution in time for our app's release**

SKILLS
- Programming Languages: C++17, Go, JavaScript, CSS, HTML5, SQL, Python, Java, C#, C
- Frameworks: React, Flask, OpenGL and GLSL
- Software: Docker, vim, PostgreSQL, Visual Studio
- Math Packages: MATLAB, TensorFlow, NumPy

PROJECTS

Personal Website (eddiehatfield.com)
- Built a stylish static portfolio using GatsbyJS, React, GraphQL for image loading, along with CSS and HTML/JSX

SGA – Simple Genetic Algorithm (github.com/eddiehatf/SGA)
- Genetic algorithm framework **written in modern C++** that **uses templates and lambda functions** to provide a **completely customizable pipeline**, allowing users to write their own genotypes and crossover/fitness functions

MATLAB PageRank analysis – Numerical Linear Algebra Final Project
- A comparison of various iterative eigenvalue techniques through the lens of the PageRank problem

EFGL (github.com/eddiehatf/efgl)
- A C++ library of abstractions of **OpenGL concepts** created for the purpose of **allowing rapid experimentation of rendering and lighting techniques**

ACTIVITIES

JumboCode (Student Consulting Organization) – Incoming Developer (Begins Fall 2020)
- Will work in small team of students with a non-profit, **leveraging Django, PostgreSQL, and React** to build a responsive web application to advertise and update opportunities for members of marginalized communities