

# Peter Smiley

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## Education

### **Tufts University (Computer Science, 2023)**

**Medford, MA**

- **Coursework:** Machine Structures and Programming, Data Structures, Algorithms, Programming Languages, Security, Cloud Debugging, Software Testing, Software Development, Assistive Algorithms, Discrete Math
  - GPA: 3.75/4.0 - Dean's List Every Semester
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## Work Experience

### **Google, STEP Intern**

**Remote, Summer, 2021**

- Incoming software development internship. Working on the Google Cloud Chronicle team to build enterprise ready software that helps security analysts efficiently monitor petabytes worth of telemetry data.

### **Levin Lab, Research**

**Medford MA, Spring, 2021**

- Collaborating directly with Dr. Michael Levin, Vannevar Bush Chair and Director of the Allen Discovery Center at Tufts, to create computational models and simulations to aid his cutting edge research.
- Developing artificial neural nets and using state of the art technology to better understand cellular evolution.

### **Immuto Inc.**

**Minnesota, Winter, Summer, 2020**

#### *Software Developer (Summer)*

- Designed and built a Google Chrome extension, wrote several custom background scripts that run as the user navigates the web, and integrated blockchain technology with the Chrome API.

#### *Backend Developer (Winter)*

- Applied the express.js framework and mongodb to build out backend functionality for a blockchain based permissioning system using the Immuto API.

### **Clarkstown Community Center, Programming Teacher**

**New York, Fall, 2017**

- Set up, organized, and taught an eight week class in C++ to 15 middle school students in my community.
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## Projects (see more on my website)

**Hackathon Developer**, Tufts Polyhack 2019, Mit FinTech Hackathon 2020, Consensus Health Stop COVID Hackathon 2020, MIT Bitcoin Hackathon 2020, Stanford Treehacks 2021

**Head of Development**, Tufts Blockchain Club

### **Neuroimaging Optimal Path Approximation, Javascript**

**Winter, 2021**

- Built a genetic algorithm to provide a customized approximation to the NP Hard traveling salesman problem.
- Created for a neuroscientist to find an efficient path for microscope imaging across a section of brain tissue.

### **ConsentUs, Javascript, React, Express, MongoDB, Immuto API, Bootstrap**

**Spring, 2020**

- Developed a website with blockchain technology to simplify and secure patient consent in clinical trials.
- Won the Highest Usability Award at the MIT Bitcoin Hackathon.

### **Immunify, Javascript, React, Express.js, MongoDB, MaterialUI**

**Spring, 2020**

- Developed a platform that empowers citizens to improve the health of their local communities and to support national research in order to combat Covid-19.
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## Skills

- **Languages:** Python, C, Javascript, Go, C++, Swift, Standard ML, Scheme
- **Software:** React, Express, MongoDB, Redux, HTML, CSS, P5.js, Numpy, Django, NetLogo, HASH.ai
- **Tools and Technologies:** Linux, Git, Postman, Vim, Jira, Wireshark, GDB
- **Non-Technical:** Agile, TDD, Scrum, Kanban, System Modeling, Quality Management, Full Stack