

John “Jackson” Parsells

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Education

Tufts University

Bachelor of Science in Computer Science, Minor in Economics

GPA: 3.81/4.00, Dean's List

Courses: Algorithms, Calculus II, Computer Systems Security, Data Structures, Discrete Mathematics,
Machine Structure and Assembly Language Programming, Programming Languages, Web Engineering

Expected May 2023

Medford, MA

Experience

Tufts University

Teaching Assistant, Department of Computer Science

Aug 2020 – Present

Medford, MA

- Convey core principles of C++ to more than 300 students in Introduction to Computer Science course
- Instruct 20 students in weekly lab to reinforce algorithmic understanding and introduce implementations
- Hold 10 hours of office hours for 1:1 help and give personalized feedback through grading each week

Mumvia

Frontend Web Developer and Tester

Jun 2020 – Aug 2020

Remote

- Conducted in depth research, testing, and automation of all preexisting web functionality
- Automated testing through Selenium for proprietary social media API implementation
- Orchestrated reconstruction of fundraiser page driven by result of market research

Technical Skills

Programming Languages: C++, C, Python, Java, SQL, Javascript, JSP, HTML, CSS, LaTeX

Frameworks: Node.js, React.js, Kali Linux

Software Packages: Wireshark, Netstat, Nmap, Bash, GitHub, Nano, VS Code, Microsoft Office, G-suite

Projects

JumboCode OCCUR

Front End Web Developer

Jan 2021 – Present

Medford, MA

- Utilize React function components in Next.js to build an interactive front end experience for users
- Incorporate modern CSS elements such as Flexbox to build dynamic and well formed pages
- Collaborate and learn new skills with different team members through client assigned Git based tickets

Tufts Daily Web Team

Jan 2021 – Present

- Implement ground up COVID dashboard utilizing Wordpress plugins and Python web scraping
- Write custom CSS and HTML content to clarify image placements, modify body content, and realign objects
- Generate automatic website backups to augment Web team's freedom to reimplement and update features

Image Compressor and Decompressor

Oct 2020

- Utilized bit packed representations of image pixels to build a compressor and decompressor
- Designed and implemented bit pack program to pack signed or unsigned integers into 64 bit words
- Generated consistent image differences of 1% when an image went through compressor then decompressor

Activities

180 Degrees Consulting

Student Consultant

Jan 2020 – Present

- Provide free consulting for local nonprofits by drafting deliverables and holding weekly meetings with client

Tufts Office of Residential Life

Residential Assistant (RA)

Aug 2020 – Present

- Mentor and support 13 first year residents, providing them with resources to build a healthy college foundation