

EDUCATION

Middlebury, VT	Middlebury College	September 2016 - August 2020
<ul style="list-style-type: none">• Major: Computer Science, BA; Minor: Mathematics• CS Coursework: Algorithms and Data Structures, Computational Theory, Operating Systems, Embedded Systems, Data Science, Networking, Parallel Computing• Mathematics Coursework: Multivariable Calculus, Number Theory, Modeling, Linear Algebra• Athletics: Varsity Swimming, member of NESCAC All-Academic Team for 2017-2019 seasons		

EMPLOYMENT

Multiple years of experience as an independent contractor with several mid-size companies as clients (listed below)

Web Engineer, Designer	Landis Architects	Spring 2020 - Present
<p>www.landisconstruction.com (in development): Top Washington, DC renovation and remodeling firm</p> <ul style="list-style-type: none">• Built a dashboard to manage portfolio projects and implemented a UI to showcase and filter projects.• Implemented a RESTful backend server to create and manage SEO meta tags using PostgreSQL.• Created an interface and system for content creation and persistent data management within a RDBMS.		
Web Engineer	DomCBD	Spring 2019 - Spring 2020
<p>www.domcbd.co: Private Equity backed wellness brand based in Los Angeles</p> <ul style="list-style-type: none">• Implemented an online store and checkout flow by utilizing BigCommerce and building a RESTful API.• Improved page loading speeds by 40% through integrating page-level caching with VueJS.• Increased responsiveness by optimizing layouts for mobile and tablet devices.		
Web Engineer	DomPen	Fall 2017 - Spring 2020
<p>www.dompen.co: Private Equity backed cannabis company based in Los Angeles</p> <ul style="list-style-type: none">• Redesigned the company's website from the ground up using Laravel (PHP) and Vue (Javascript).• Implemented a responsive events calendar for displaying in-store demos of products.• Built a store locator tool for customers to provide directions to the nearest retailer of DomPen products.• Created a system for customers to verify certificates of analysis for cannabis offerings by implementing a tool that matches third-party lab testing results with corresponding batches of products.• Increased conversion rate by 150% by adding a flow for users to purchase products from online retailers.		

SOFTWARE PROJECTS

Personal Website: www.treyoehmler.com (for additional information and projects)

Automatic Brain Tumor Segmentation with Convolutional Neural Networks

- Researched and developed a machine learning model for segmenting regions of brain tumors on an MRI.
- Trained and tested using the BRATs dataset from UPenn's global segmentation challenge; the model achieved a dice coefficient consistent with the results of the most up-to-date segmentation models.
- Utilized: Python, Numpy, Tensorflow / Keras, AWS, Azure, Google Cloud Platform.

I/O System Call Wrappers for Standard C System Calls

- Built a collection of functions that insulate a program from the inefficiencies of I/O-related system calls.
- Minimized the number of system calls by incorporating a block buffering scheme.
- Utilized: C programming, memory management, Bash for testing, GDB for debugging, UNIX.

Memory Allocation Library for C

- Implemented a library of memory allocations functions to replace standard C library equivalents.
- Accommodates memory requests by dynamically growing and shrinking the size of the heap.
- Utilized: C programming, system design, memory architecture, GDB for debugging, UNIX.

SKILLS

Software: (proficient): C, Python, Javascript, R, HTML/CSS, SQL, UNIX, Git (familiar): C++, Java, AWS, GCP