Trey Oehmler

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Treyoehmler.com

203-722-1497

EDUCATION

Middlebury College — **Middlebury, VT**

Bachelor of Arts, Computer Science Major, Mathematics Minor — *May 2020*

- Computer Science Coursework: Data Structures, Computer Architecture, Theory of Computation, Systems Programing, Software Development, Advanced Operating Systems, Embedded Systems, Algorithms & Complexity, Data Science, Networking, Parallel Computing
- Mathematics Coursework: Calculus II, Linear Algebra, Multivariable Calculus, Number Theory, Mathematical Modeling, Math Foundations of Computing
- Athletics: Varsity Swimming, member of NESCAC All-Academic Team for 2017-2019 seasons

New Canaan High School — **New Canaan, CT**

Diploma with honors; GPA: 4.0 (9.50/10.0) — *June 2016*

EXPERIENCE

TMO Consulting — **Middlebury, VT**

Designed and developed custom web focused solutions, including web design and development, advanced analytics, and ecommerce integration for multiple clients. — *June 2017-Present*

DomCBD (2019-Present)

- Developed a custom content management system for the company's blog.
- Implemented a highly responsive design optimized for cross-browser support and loading speed.
- Developed a custom headless ecommerce solution to provide an improved customer experience.

DomPen (2017-Present)

- Built multiple branding sites that utilize best practices for SEO, accessibility and performance.
- Created a responsive custom events calendar with a Google Calendar API.
- Designed and built a responsive store locator using Google Maps API.
- Ideated and developed a way to drive traffic to Ease.com, becoming one of the top five sources of revenue conversion for the largest cannabis company in the U.S.
- Created a unique system to allow consumers to evaluate the purity and authenticity of cannabis offerings.

Gardenhouse Brands (2020)

JR10 Clothing (2020)

Calavera Cannabis (2020)

PROGRAMMING PROJECTS (2018-2019)

- **Automatic Brain Tumor Segmentation:** Developed a machine learning model that uses a convolutional neural network to automatically segment High Grade Gliomas. The model was trained on the BRATS2015 dataset through AWS and Azure and implemented using Keras with a Tensorflow backend.
- **One Life Website:** Created an informational website for a student-run charity at Middlebury College. Implemented a custom newsletter subscription form and integrated Stripe to accept donations.
- **Malloc:** Built a library of memory allocation functions that replace the standard C library equivalents with the goal of intelligently growing the size of the heap to accommodate memory requests.
- **I/O System Call Wrappers:** Implemented block buffering to increase the efficiency of I/O related system calls. Developed wrapper functions for the UNIX system calls open (2), close (2), read (2), write (2) and lseek (2).
- **Custom Shell:** Developed a shell that accepts user input and supports input/output redirection and pipelines.
- **Self-Linker:** Implemented a program that circumvents standard runtime linking procedure on UNIX systems.

ADDITIONAL SKILLS

(Fluent) Python, HTML/CSS, VueJS, PHP, JS (CommonJS and ES6), SEO, C, MYSQL, Eloquent, Git
(Proficient) Java, Tensorflow, ReactJS, Apache2, AJAX, AWS, Azure, Photoshop, R (Familiar) Heroku Swift, C++, Ruby