Trey Oehmler

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EDUCATION

Middlebury College   **Middlebury, VT**
Bachelor of Arts, Computer Science Major, Mathematics Minor   *Anticipated Graduation 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
- 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*
- **Athletics:** Varsity Swimming; Captain for 2015-2016 season; set a state record in the 200 yard medley relay.
- **Volunteering:** Co-President and VP of Web Technology for the NCHS Service League of Boys. Oversaw and managed entire volunteer organization consisting of 220 students and 300+ parent members.
- **Web Design:** Worked as the Web Director for the school newspaper and oversaw all content published online. Led a re-design and development of the site's content management system.

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.

Ghostlight (2018)
- Designed and developed a promotional website for an independent movie.

Safe Passages House (2017)
- Created a highly responsive informational site with cross-browser capability.

Woodway Country Club   **Darien, CT**
Assistant Swim Coach   *June 2016-August 2018*

PROGRAMMING PROJECTS

- **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. (Spring 2019)
- **One Life Website:** Designed and developed an informational website for a student-run charity at Middlebury College. Implemented a custom newsletter subscription form and integrated Stripe to accept donations. (Winter 2018)

- **Malloc:** Built a library of memory allocation functions that replace the standard C library equivalents. The implementation attempts to intelligently grow the size of the heap to accommodate memory requests. (Fall 2018)
- **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). (Fall 2018)
- **Custom Shell:** Developed a shell that accepts user input and supports input/output redirection and pipelines. (Fall 2018)
- **Self-Linker:** Implemented a program that circumvents the standard runtime linking procedure on UNIX systems. (Fall 2018)
- **Woodway Aquatics Website:** Designed and developed a scheduling and event planning platform for the aquatics program at Woodway Country Club for lessons, practices and swim meets. (Summer 2018)
- **Kinect Drum Set:** Developed a drum set using Microsoft Kinect and C++ at age 13. (Winter 2011)
- **iTennis:** Developed a simple iPhone game in Objective-C. (Spring 2011)
- **VoteTube:** Built a voting platform that utilized the ELO rating algorithm for ranking YouTube videos. (Winter 2010)

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
Academic Recognition: Woodway Country Club Scholarship recipient (2017-2019), AP Scholar with Honors (2016), National Honor Society Member (2014-2016), Connecticut Swimming Scholar Athlete (2013-2016)