Daniel M. Taub, MEng

Somerville, MA
d.m.taub gmail

Objectives:
To build technologies that contribute to the generation-defining human-computer symbiosis.
To promote education and tools that enable growing, learning, and healing through creative self-expression.
To help companies with their growing pains; reduce tribal knowledge; and break down walls between silos.

Education:

Massachusetts Institute of Technology — **Cambridge, MA**
Graduate GPA: 4.9/5.0 — **September 2009**
Master of Engineering in Electrical Engineering and Computer Science
Bachelor of Science in Electrical Engineering and Computer Science. Minor in Biomedical Engineering (**2006**)

Employment:

Matterport — **Sunnyvale, CA (remote)**
Senior Staff Software Engineer — **April 2022 – Present**
• Enabled external 3D application developers by adding features to the Matterport SDK
• Collaborated with product, customer support, design, and engineers to improve developer experience
• Shepherded Showcase Plugin system from prototype to production, including docs and examples

LightForce Orthodontics — **Cambridge, MA**
Senior Software Engineer — **Dec 2019 – Feb 2022**
• Worked on WebGL-fronted, C++-backed CAD software for planning custom orthodontic treatments
• Interfaced with doctors and treatment planners to advocate for UX to improve workflow efficiency
• Provided project planning and technical leadership for a remote, geographically-distributed team

Markforged — **Watertown, MA**
Senior Software Engineer — **Nov 2017 – Nov 2019**
• Worked on web applications and embedded systems that enable customers to 3D-print strong parts
• Developed customer experience analytics and advocated for data-driven product engineering
• Redesigned build systems to seamlessly integrate legacy and newly-developed code into a CI/CD pipeline
• Spearheaded efforts to improve interdepartmental communication, API docs, and educational outreach

Autodesk — **Somerville, MA**
Software Engineer — **Aug 2014 – July 2016**
• Built first-of-its-kind web-based application for hybrid electro-mechanical design of 3D-printed parts
• Prototyped initial application, and redesigned it to build a modular framework for web-based CAD
• Served as ambassador to our startup partner, Voxel8. Responsible for voicing the needs of both sides

Philips, Color Kinetics — **Burlington, MA**
Software Engineering Consultant — **2012 - 2013**
• Developed a web-based front-end application to control and script the lights on the Empire State Building
• Ruby on Rails, CSS, Coffeescript, Protocol Buffers, ZeroMQ, Mongodb, Postgresql

Ventures:

ChipFlask LLC. — **Somerville, MA**
Managing Member — **July 2016 – Aug 2023**
• Founded company to provide technology and business consulting services
• Specializes in user experience, web app design and development, and browser-based 2D/3D visualizations

SaikoLED — **Somerville, MA**
VP of Interaction Design — **Oct 2010 – Aug 2014**
• Performed market research, product design, and application development for a successful Kickstarter
• Developed an open-source, audio-responsive, wireless RGB+White LED light fixture with 16-bit resolution

Software Skills: Node.js, Python, RoR, Angular(js/2+), Vue, WebGL, Postgres, Mongo, Adobe Suite
Javascript, Typescript, Coffeescript, Rust, Java, C/C++, OpenCV, .NET, R, MATLAB

Other Skills: Lighting Design & Control, Embedded Systems, 3D Design and Printing
Japanese Language - Performance: Vocal/Guitar/Ukulele/Acting. Deus Ex Machina

Outreach/Hobbies: Public school visits for 3D design and printing, robotics club, OSS Contributor
Previous: Risk Manager/Board Member for the MIT Chapter of Tau Epsilon Phi