

Mitch Talmadge

mitch@mitchtalmadge.com | <https://mitchtalmadge.com/>

Full-stack production engineer and SaaS startup founder with 8+ years of experience taking concepts to creation. Excellent communication skills. Self-driven learner. Loves to work independently and in teams.

EDUCATION

Aug. '16 to Dec. '21 **University of Utah College of Engineering** – B.S. / M.S. Computer Science
3.9 GPA • Direct Admit • Full-Major at Entry • Honors Scholarship • Hackathon Director

EXPERIENCE

- May. '19 to Aug. '19 **Facebook** – Production Engineer Intern
- Designed and productionized new PHP-based data storage system for internal management of large advertisers, resulting in an 8x speed increase over old system.
 - Worked directly with business partners in creation of
- Aug. '16 to Aug '19 **AptiTekk, LLC.** – Founder & CEO
- Built and orchestrated highly-available Spring web apps with Docker and Kubernetes.
 - Utilized JIRA, Bitbucket, and Bamboo for agile continuous integration processes.
 - Networked physical and virtual Linux servers to host company website and services.
- Jul. '18 to Jan. '19 **ConexED** – Software Engineer
- Wrote FFMPEG video processing algorithm to merge multiple conference recordings into single MP4 files. Employed multiple AWS services including SQS, SNS, ECS, and Lambda.
 - Built React/PHP walk-in appointment kiosk with predictive wait-time estimation algorithm. Intelligently queued guests by counselor specialties and availabilities.
- Jun. '18 to Nov. '18 **Gizmode Innovations** – IoT Software Engineer
- Developed embedded C++ firmware and circuitry for an ESP8266 microcontroller.
 - Created Angular/NodeJS web app to interface via REST API with IoT device firmware.

SKILLS

Languages: C, C++, C#, Java (EE), Python, PHP, Hack, SQL, JavaScript, TypeScript, HTML, CSS, UML, XML.
Frameworks & Patterns: Java Spring, Node.JS, Express, Zend, Angular, React, Electron, Arduino, REST, MVC.
Tools: Docker, Kubernetes, Webpack, Atlassian, Jenkins, Linux, Windows Server, Heroku, AWS, Firebase.

HONORS

Sterling Scholar: Regional Winner – Computer Technology

Central Utah Science and Engineering Fair:

- First Place – Computer Science
- Intel Excellence in Computer Science Award
- Dean's Award – BYU David O. McKay School of Education

Technology Student Association (TSA): First Place – Software Development

Microsoft Technical Associate (MTA): First Place – Development Fundamentals

PROJECTS

- May. '15 to Present **Emoji Tools** – Open-source utilities to extract/embed PNG emojis within Unicode TTF font files on mobile and desktop operating systems. 13,000+ downloads. Used by emojipedia.org.
- Aug. '15 to May '19 **AptiBook** – Multi-tenant room and equipment reservation system built around a hierarchical approval process. Designed for schools, with support for Google Apps and CAS authentication.

Mitch Talmadge

mitch@michtalmadge.com | <https://michtalmadge.com/>

Dear Reader,

My experience writing software did not begin with college. From the age of seven I have been taking apart software, learning how they work, and using my newfound knowledge to create software of my own. By the time I was thirteen, I had created popular video game modifications with over sixty thousand installations. In middle school, I created a Minecraft educational platform that was used by multiple educators, including myself, to teach programming classes. This platform placed first in the Central Utah Science and Engineering Fair. In high school, I built a live-voting system for school assemblies that was concurrently used by 400+ students at once, and took first place in Utah's TSA chapter. My success in secondary education culminated with the title of Sterling Scholar Winner in Computer Technology, an enhanced diploma, and a 4.0 GPA.

Having experienced the development of a wide range of applications from desktop utilities to video games, I have found a keen interest in perfecting the aspects of web application development. Between senior year of high school and freshman year of college, I founded AptiTekk, LLC., under which I lead a team in the creation of a full-stack room and equipment reservation system based in Angular and Java EE / Spring. I have contracted my skills in the development of multiple full-stack systems, including all aspects of an IoT device platform: C++ microcontroller firmware, React web frontend, NodeJS backend, and the REST API between them. I have expanded my skills through multiple startups and companies, including Facebook, where I played key roles in developing both internal tools and public-facing responsive web interfaces.

My education at the University of Utah has complimented my focus in web applications by introducing me to Ruby-on-Rails via CS 4540 (Web Dev), reinforcing my understanding of web security in CS 4440 (Computer Security), and strengthening my ability to create efficient database schemas through CS 5450 (Database Systems). This semester I am studying the art of creating user-friendly interfaces in CS 3540 (Human Computer Interaction). My strong abilities in web development do not comprise my entire skill-set; in fact, I am also highly skilled in CAD, welding, and electronics, with the ability and equipment to design and fabricate fully-functional circuit boards from my home workshop in Utah.

I am highly dedicated to my education and my profession, and will see out any project to as close to perfection as is reasonably possible. I approach every problem with excitement, and thoroughly enjoy working in teams. Together, we can create something incredible that will have a lasting and noticeable impact. I look forward to working with you.

Sincerely,

Mitch Talmadge