

Tyler Peterson



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github.com/gingernaut



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Education

Brigham Young University 2014 - 2018

B.S. Information Systems

Minor Computer Science

GPA 3.38

VP of Operations, Developers Club

IBM Watson Scholarship

BYU Merit Scholarship

Experience

Backend Engineer August 2016 - Present

ClientSuccess American Fork UT

Developing backend features in Clojure, SQL, and Java in Docker containers on AWS.

Software Engineer Intern June - August 2016

Visa San Mateo CA

Rewrote Java image resizing and processing software for Visa Checkout, resulting in a significant increase in image quality. Worked with Java's Spring framework and Maven.

Developed internal dashboards and tools to monitor deployment and test information from Jenkins using Elasticsearch and node.js across dozens of internal environments.

Full Stack Web Developer February - May 2016

BYU Provo UT

Created web applications using PHP, SASS, and Javascript, and helped design and implement the MySQL database architecture.

Data Analyst Intern June - August 2015

Visa San Mateo CA

Wrote SQL queries to calculate and track the effectiveness of Visa merchant's promotional campaigns, and developed dashboards and alerting systems to monitor the data in real time.

Backend Web Developer April - June 2015

BYU Provo UT

Created PHP applications for campus IT security to track and reduce the number of compromised/infected systems on campus, utilizing PHP's Yii MVC framework and MySQL databases.

Projects

Passive Inspection CubeSat 2014 - Present

spacecraft.byu.edu

Founding member of a \$200,000 NASA USIP research project to develop a cube satellite that captures spherical content for spacecraft inspection and virtual reality, fully funded to launch in 2017.

Developed initial software prototypes for spherical image capturing and processing, and participated in mechanical engineering research on design of camera technology.

Presented at the 2015 AIAA Region VI Student Conference.

Robot Lawyer March 2016

CourtHacks, Salt Lake City UT

Developed 'Robot Lawyer', a friendly chatbot that uses conversation to generate completed legal documents.

Won 1st place and an all-expenses paid trip to demo at e-Courts 2016 in Vegas.

Built the document completion features and worked on the chat functionality and front-end interface.

Streetlapse March 2016

streetlapse.com

Created a web application that takes A/B starting points in Google Maps and generates a Google Streetview timelapse of the selected route.

M3Dical June 2015

AngelHack Silicon Valley CA

Developed an HP Sprout application that serves as a medical kiosk; it scans fingers and hands and generates 3D printable braces, as well as scanning and reading insurance documents.

Won Autodesk's 1st place prize, HP's 2nd place prize, and was named a top 6 finalist for the hackathon.

Skills

Languages

Proficient in: Python, Java, SQL, HTML, CSS, JS
Experience in: C#, PHP, C++

Frameworks

Django, Node.js, Spring, ASP.NET, SASS, Bootstrap

Software/Platforms:

Linux, Git, Vagrant, Amazon Web Services (AWS)