Michael T. Hartley

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PROJECTS

StatsGG (MongoDB, Express.js, AngularJS, Node.js) www.statsgg.com

- Created a single page web application to visualize and interpret interesting data from Smash Summit Spring 2017, a tournament hosted on the smash.gg platform, using the smash.gg and YouTube iFrame APIs
- Visualized data using ng2-charts library to display a win probability graph with probabilities calculated via linear ridge regression
- Routed smash.gg API requests through the server, returning the response in JSON format
- Deployed to Amazon AWS (EC2) Ubuntu service instance using Nginx and PM2

HartTV (Python, HTML, CSS) www.harttv.net

- Developed a web application using the TVmaze API to manage TV shows watched with a focus on community interaction
- Constructed standard CRUD features for the user and show application components
- Used multiple threads when creating new show page to reduce load time and improve user experience
- Built adhering to Django's model/template/view standard for development with a MySQL database
- Deployed to Amazon AWS (EC2) Ubuntu service instance using Nginx and Gunicorn

HartPR (Python, JavaScript, HTML, CSS) http://hartpr.herokuapp.com/

- Created a web application to calculate and display an objective ranking of Washington SSBM players' skill using the Microsoft TrueSkill, smash.gg and Challonge APIs
- Developed using the Flask framework with a PostgreSQL Database
- Experienced deploying a full-stack web application to Heroku

EDUCATION

Coding Dojo Bellevue, WA
Full-Stack Web Development Student May 2017 – Sept 2017

- Completed an immersive web development program, earning the highest available certification in each stack
- Developed web applications with Python, MEAN, and C# ASP.NET Core MVC Framework

University of Washington Seattle, WA
B.S in Neurobiology – 3.53 GPA Sept 2012 – June 2016

- *Relevant Coursework:* Data Programming, Elements of Statistical Methods
- *Extracurricular:* Charity: Water UW Chapter – Treasurer | Smash Club @ UW – Secretary

WORK EXPERIENCE

Bosma Lab @ UW Seattle, WA
Undergraduate Researcher April 2014 – June 2016

- Analyzed data from calcium imaging experiments using statistical software (IGOR), drawing conclusions about the role of calcium expression patterns in embryonic hindbrain development
- Developed a novel culture method to extend hindbrain life during incubation based off of analyzed data and proactively maintained records and documentation of new procedures
- Coworkers were able to replicate new techniques based off of my documentation, allowing for design of new multi-day experiments
- Reviewed and collaborated with colleagues' data for accuracy and quality

TECHNICAL SKILLS

Languages: JavaScript, Python, C#, SQL, HTML, CSS
Frameworks: AngularJS, Express.js, Django, Flask, ASP.NET Core, MVC development
Database: MongoDB, NoSQL, MySQL, PostgreSQL, SQLite, ERD building