

Stephen Blake Adams



Programming Languages

Ordered By Production

PHP, JavaScript, Python, MySQL, Ruby, Java, C#, C++

Frameworks/Libraries/APIs

Ordered By Experience

Gatsby, React, Ruby on Rails, AngularJS/2, .NET, OpenCL

Tools

Ordered By Experience

NotePad++, Atom, Visual Studio Code, Eclipse, Git

Employment History

Software Developer

University of Mississippi

2015 - Current

- Project architect and sole software developer of the online electronic assessment system titled DREAM.
- Provided the back-end database schema and implementation consisting of 151 tables, 62 views, and 27 stored procedures/user defined functions.
- Developed a comprehensive automated testing suite for aforementioned system using both unit and integration tests programmed in Python with Selenium bindings.
- Developed both the client-side and server-side functionality using JavaScript and PHP totaling over 136,000 lines across 1153 files.
- Developed the scripts responsible for the sanitization, migration, and restructuring of historical information from the previous system to the newly developed system.
- Provided user documentation of the aforementioned system totaling to over 307 pages demonstrating the functionality and relevant instructions on how to navigate the system.
- Spoke and provided answers to technical questions regarding the system at the 2016 AACTE and 2016 NCATE conferences.

Web/Mobile Applications Developer

Central Service Association

2014 - 2015

- Developed an online AngularJS timesheet/payroll management application for utility companies that utilized WCF web services and a MS-SQL database system.
- Developed an Android mobile application using the Java SDK for authenticated utility company customers to monitor usage, costs, billing information, and simulate energy consumption.

Educational Background

M.S. in Computer and Information Science

University of Mississippi

2014

GPA: 3.90
Thesis: Exploration into the Performance of the Implicit Asymmetric D-ary Heap on Simulated HSA-based Architecture

B.S. in Computer and Information Science

University of Mississippi

2012

GPA: 3.74
Senior Project: RebelFlow: Simulated Well-Pump Placement Online Application

Honors/Organizations: Cum Laude, ACM Student Organization President, Upsilon Pi Epsilon (Computer Science), Gamma Beta Phi, Pi Mu Epsilon (Mathematics)

Projects

Mars

Details: Ruby on Rails, PostgreSQL, Amazon AWS, Heroku, Omni-authentication, Geolocational Search

- Crowd-sourced online application allowing users to register and enter recommendations for meals at restaurants.
- The system aggregates the recommendation information to determine different metrics for the meals and corresponding restaurants based on cost-effectiveness, portion size, and general satisfaction.
- Users can locationally search for most recommended meals and restaurants based on their provided location (implicitly or explicitly determined) and key words that correspond to tags associated with the meal.

Oasis

Details: Angular 2.0, TypeScript.

- Financial projection calculator allowing users to build their arrangement of income streams, pre-tax/tax/post-tax buckets of varying properties and monitor accumulation over time (unit of measurement being home).
- Users also have the ability to transfer amounts between buckets and add windfall amounts to specific buckets at any specific point in the simulation.
- Users can view the historical monthly information regarding their arrangement and any changes.

Personal Website

Details: Gatsby, React.js, GraphQL, Static-Site Generator, ES6.

- Personal website to publish blog articles, booknotes, and project information.