

EDUCATION

University of Missouri – Columbia, MO
Bachelor of Science in Computer Science

Anticipated Graduation Date: **May 2015**

GPA: 3.7

EMPLOYMENT

Database Programmer **University of Missouri College of Business** **Fall 2013 - Current**

- Standardizing database usage – moving MS Access frontends to the Web and the SQL into stored procedures.

Software Developer, Intern **ADM Crop Risk Services** **Summer 2013**

- Implemented multithreaded parser in C# that put source code into database allowing queries for obsolete library usage, or syntax that allows security flaws
- Automated a task that was taking Auditors several hours weekly and another that provided previously unavailable, but necessary, data using SQL Server Reporting Services.

Associate Student Developer **iSocial Lab, University of Missouri - SISLT** **Spring 2012-Spring 2013**

Under Dr. James Laffey

- Analyzed and restructured MT-Game Java code
- Created testing world in UDK both code and scripting
- Integrated positional audio attenuation using Mumble for a multiplayer game type in UDK

Undergraduate Researcher **University of Missouri- Biological Sciences** **Fall –Spring 2011**

Under Dr. John Walker

- Performed site-directed mutagenesis on Arabidopsis gene
- DNA work with Arabidopsis genes and vectors: isolation, restriction, ligation, Site directed mutagenesis
- Transformation Performed site-directed mutagenesis on Arabidopsis gene
- Also isolated RNA in preparation for protoplast transformation

Molecular Biology Research, intern **Monsanto** **Summers 2011,2012**

Herbicide Tolerance Team

- Isolated RNA and performed northern blots to detect siRNA (2012)
- Cloned genes using e coli and performed PCR for further analysis, prepared DNA for sequencing (2012)
- Designed monitored, and took measurements for small environ-controlled experiments with Maize (2011)

PROJECTS

- “WinKeys”** C++ project to group and issue commands to window handles via hotkeys (2013).
- JMonkey3 Server-Client** Built up minimal Server– Client game, built message structures, message handlers, as well as player movement logic (3D). Used Multithreading to handle introduction of received message data to game loop. (2012)
- WordFlip** Windows 8 App – Anagram calculator, takes string of bounded length, calculates permutations of characters and matches against dictionary.
- Github.com/Sammons** contains these and more

SKILLS**Proficient**

- .NET C# and Visual Basic, Visual Basic for Applications, Java, Transact-SQL, C, Javascript, HTML, CSS,
- Visual Studio, Team Foundation Server, SQL Server Management Studio, Netbeans, jQuery, OOP

Experience

- Perl, C++, PHP, PSQL, Node.JS, Clojure, ASP.NET Webforms,
- Git, Eclipse, Resharper for Visual Studio, Ubuntu, UDK

OTHER EXPERIENCE/AWARDS

- Third Place in Startup Weekend Columbia 2013 with “Gauntlet Initiative”, 3D printing prosthetics
- Dean’s List Every Semester
- Bright Flight Scholarship – over 30 on ACT in Missouri
- Students And Teachers As Research Scientists (STARS) Research in Donald Danforth Plant Science Center

