**James E. Patterson**

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Github: [personal](https://github.com/xrzy1985), [business](https://github.com/noworrieswoodworking) | [LinkedIn](http://www.linkedin.com/in/james-patterson-933843133) | [Online Portfolio](https://xrzy1985.github.io/)

**Objective** To obtain an entry level position within the software development community. I hope to develop lasting relationships with people, companies, and technology progressing through a long career. I like to challenge myself by learning new skills. A strong belief in effective communication within the workplace. I hope to continue my hard work by developing additional knowledge of front end and back end problem solving skills by learning new and innovative languages, techniques, and technology. Please, you’re encouraged to check out my github and online portfolio to get to know me better.

**Education Kennesaw State University,** Marietta, Ga*Bachelor of Science in Computer Science,* Dec 2016**GPA:** 3.71

**Projects**

**[SSSAJ](bgplayer.pythonanywhere.com) :** Capstone Project, Fall 2016

* A Flask based encrypted file sharing web application that implements 256 bit AES algorithms to securely compare passwords, transfer files, and ensure overall integrity.
* Flask, Python, Sql Alchemy, HTML, CSS, Bootstrap

**[Meraki](http://www.themerakicode.com/)** : Internet Programming, Fall 2016

* A social web based application developed using Flask, Python, HTML, CSS, Bootstrap, and Jinja2. The site implements log in and out functions, encrypted file sharing, encrypted messaging, an open forum comments section, profile area for users, and tutorial information on the following programming languages: Java, C++, C#, Python, Javascript,, while HTML, AngularJS, and SQL are in progress.
* Future Implementations: C, Swift, PHP, Perl, and Unity Game Engine (C#)
* Flask, Python, MySQL, Javascript, HTML, CSS, Bootstrap, AngularJS

**Library Management System** : Software Engineering, Spring 2015

* A desktop management system written for a small library in Visual Basic; revised for two separate SWE projects.
* Utilized the Agile methodology to succeed in our goal
* Features: Log In/Out users, Check in/out media, register media, register users, enforce fees if late
* Visual Basic, MySQL, HTML, CSS

**Metronome :** Computer Organization and Architecture, Fall 2015

* A small device designed to cycle through a route of 0 and 1 at alternating speeds; 0 being off and 1 being on.
* Written in an assembly language; designed using a MSP-430 with bread boarding

**Course Highlights** Application development, Encryption/Decryption, Java/Python/C++/C#/VB programming, Software engineering principles, Database creation/maintenance, Hardware, Front and Back end web development, Algorithm analysis, Ability to learn new languages and concepts, Data Structures, and Information technology.

**Programming Languages/Frameworks:** VB, Java, C++, C#, Python, Prolog, SQL, PL/SQL, HTML, CSS, Bootstrap, Javascript, Django, Flask, Jinja2, AngularJS

**Database Management**: SQLite3, Oracle 8.x, MySQL Server 5.7, MS Access, Sql Alchemy

**Database Connectivity:** Java JDBC, Python SQLite3

**Software Engineering:** Requirements gathering, planning, proper time line establishment, dynamic problem solving skills, proper documentation of projects, and finalization of projects on time. Utilized two specific methodologies: Agile and Waterfall.

**App**: Xamarin Cross Platform Builds; Utilizes C# and Xaml code to compile into Android, iOS, and Windows.

**IT:** Database management, Encryption techniques, Web based attack prevention, Hash algorithms

**Encryption/Decryption:** Public/Private key encryption, AES 128/256/512 keys, digital signatures

**Design Tools**: Notepad++, Dia, Eclipse, JGrasp, Visual Studio, Net beans, PyCharm, MS Office,Gimp, Unity, Git

**Systems**: Microsoft Windows based systems and Linux/Unix based systems