

Ravish Chawla

3900 Riverlook Parkway, Unit 104,
Marietta, GA, 30067

Phone: (678) 332 – 6565
Email: rchawla@gatech.edu

Objective: To obtain experience in areas of Computer Science through a position that expands my real-world experience and tests my skills and knowledge to the greatest extent.

Education:

Georgia Institute of Technology – Atlanta, GA

(2012 – present)

- Candidate for Bachelor of Science in **Computer Science**
 - Threads: **Information Internetworking** and **Devices**
- GPA: **3.77/4.0** (overall)

Southern Polytechnic State University – Marietta, GA

(2011 – 2012)

- GPA: **4.0/4.0** (overall)

Work Experience:

Zynga – San Francisco, CA

(May – Aug 2014)

Software Engineering Intern

- Completed development of backend tools for load balancers and server management across clusters
- Implemented an automation service within a game that delivers items to a targeted set of daily users by leveraging mobile push notifications
- Gained experience in PHP, JavaScript, and ActionScript.

Skills and, Knowledge

- Programming in **Assembly, PHP, C, JavaScript, Python, Java, C#, Android, and XNA**
- Programming in **SQL** and Knowledge of **relational, Big Data, NOSQL** Databases, and **Data Mining ETL Processes**
- Knowledge of **Computer Networking** principles, with **Socket programming, Networking Stack implementation, and the P2P Architecture**
- Design Practice on Important Algorithms based on **Dynamic Programming**, Graph techniques, and **P/NP**
- Financial Accounting

Project Experience

- Published multiple **Apps** on the **Google Play Store** for Android
 - **Greenbook**, an app that allows users to manage monetary transactions
 - App used the **Parse** backend service to store data in the cloud, and monetized through Google's **AdMob** platform
 - **Markbook**, an app that allows users to manage courses and grading
 - App used an integrated SQL-lite database for in-device storage
- Worked on **Big Data Processing** by installing the **Hadoop Distributed File Architecture** and using the **Map Reduce** technique on Large Datasets to implement and run algorithms such as **Page Rank**
- Developed a **Java application** called **GTPort** which acts as a portal for students and professors for managing personal and grading profiles
 - Application involved designing a database using Java that implemented the **PHP-MySQL Database System**
- Developed a BitTorrent protocol program in **C#** able to download and upload torrents from a secure tracker while handling packet corruption.
- Developed several games in C for a Gameboy system that used **Direct-Memory-Access (DMA)**
- Developed various games in **XNA with C#**, that used Inheritance, **Polymorphism**, and XBOX-360 Controller support
- Programmed and implemented important **Algorithms** and **Data Structures** in Java and C, such as **Graph-Based searches, Hash-Map Tables, and Linked Lists**
- Developed programs to run preset and randomized simulations for **Calculus** and **Linear Algebra** in **C#**
 - Programs used external libraries developed for C#, including a Microsoft Excel library that was used to plot data obtained from simulations on a spreadsheet at runtime
- Currently developing multiple apps as part of course projects, that will explore different development platforms such as Android Wear, Mobile Web, and Windows Phone 8

Research Experience

- Researched and wrote a paper on the current study and development in **ETL Workflow Optimization** used for **Data Warehousing**
- Researched and wrote a Technical Paper on a new **NOSQL** technology called **ArangoDB** comparing it to well established systems such as **MongoDB** and **CouchDB**
- Conducted a research project on **Cloud-computing**, its risks, and its importance in today's society
- Researched and wrote a Technical Paper on Infrared encoding techniques used in remote devices

Other Activities

- Have participated in the Mathematical Association of America-SE-2012 Math Jeopardy as part of the official Team for Southern Polytechnic State University