

Ravish Chawla

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Objective: To pursue a challenging career and be part of an organization that gives me scope to enhance my knowledge, skills, and to reach the pinnacle in the computing field with sheer determination, dedication and hard work.

Education

Georgia Institute of Technology – Atlanta, GA

- Masters of Science in **Computer Science : Machine Learning** (2015 – present)
- Bachelor of Science in **Computer Science** (2012 – 2014)
 - Graduated with **Highest Honors**
- GPA: **3.83/4.0** (overall)

Work Experience

Zynga – San Francisco, CA

Software Engineer

(Jan - May 2015)

- As a Software Developer at Zynga, I worked on Cross Platform Game development using the Unity Game Studio. I created and developed several services and features for the mobile game Zynga Poker as part of a team. Many of these features were released in the Production app, and are currently being used by millions of users.
- I gained experience in working with the Unity Game Studio, C# and Mono, and backend languages such as PHP and JavaScript. Most of the features I worked on were full scale and comprised multiple areas of the development platform.
- As a member of a small team, I gained experience in how to work alongside other developers and engineers. As a team, we worked on several features that required long hours of development. We completed our work in a shorter period of time by working on different components that tied together while maintaining coherence to make sure that each member of the team contributed to, and was aware of the final product.

Software Engineering Intern

(May – Aug 2014)

- Implemented an automated feature by leveraging push notifications for a live game that delivers custom in-game commodities to a target set of daily users. The feature is currently part of the live game, and is being used by millions of users.

Skills and, Knowledge

- Programming in **Assembly, C, PHP, HTML, CSS, JavaScript, Python, Java, C#, Android, XNA, and Unity3D**
- 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
- Implemented **Page Rank** using **Map Reduce** in **Hadoop**, to process the Wikipedia page-links dataset and Twitter-MemeTracker dataset.
 - The **Page Rank** algorithm ranked popularity of websites based on incoming hyperlinks to the site. The data collected from the **Map Reduce implementation** was then evaluated against an **Apache Giraph** implementation to compare algorithms based on memory and speed.
- Developed a **Java application** called GTPort which acts as a portal for 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 and parallel **TCP** connections.
- Developed several games in **C** for a Gameboy system that used **Direct-Memory-Access (DMA)**
- Programmed **C++ code** for a **Teensy 2.0 Arduino** that processed mechanical user input to drive a motorized bicycle by sending varying amounts of voltage to the motor driven from an external 12V battery supply.
- 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 on algorithms for **Calculus and Linear Algebra** in **C#**
- Will have experience on how to build and design a **Rest API**, and use one with native mobile apps, by the end of this semester.
- Developing a Web App as a project, that will use the **AngularJS** Frontend framework, a **NodeJS** Backend framework, and **Amazon Web Services** (S3 Cloud storage and **DynamoDB NoSQL database**).