Ravish Chawla

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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 automated feature by leveraging push notifications for a live game that delivers custom in-game commodities to a target set of daily users
- Gained experience in PHP, JavaScript, and ActionScript.

Skills and, Knowledge
- Programming in **Assembly, C, PHP, HTM, CSS, 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
- 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 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 and parallel **TCP** connections.
- Developed several games in **C** for a Gameboy system that used **Direct-Memory-Access (DMA)**
- Developed various games in **XNA with C#**, that had 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 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**).

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