Colin Burtan Dsouza

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Available: Jan 2nd. 2021 – Aug 30. 2021

EDUCATION

Northeastern University, Boston, MA	GPA: 3.89/4.0
College of Computer and Information Science	Jan. 2020 – Present
Candidate for a Master of Science in Computer Science	Expected graduation: Dec 2021

Related courses: Computer Systems, Information Retrieval, Algorithms

R. V. College of Engineering, Bangalore, India	GPA: 8.52/10
Bachelor of Engineering in Computer Science	June 2012 -- May 2016

Related courses: Data Structures, Operating Systems, Computer Organization & Architecture

TECHNICAL KNOWLEDGE

Languages:	Java, C, C++, Python, JavaScript, ActionScript, PHP, Rust
Databases:	MySQL, Couchbase, Memcache, DyanmoDB
Web technologies:	HTML, CSS, PHP, JQuery, Ajax, Bootstrap
Tools & Services:	Zeppelin, AWS, Grafana, Nagios, Splunk, ZooKeeper, Apache Thrift, Docker, Elasticsearch, Jenkins

WORK EXPERIENCE

Northeastern University, Boston, MA   May 2020 – Present

Undergraduate Teaching Assistant

- Involved in helping Professor Walter Schnyder in grading homework and helping a class of 60 students during office hours with Theory of Computation coursework.

Zynga Games Pvt. Ltd, Bengaluru, India

Software Engineer   June 2016 – Dec 2019

- Analyzed and designed optimizations for Farmville 2 game which reduced game memory by 16% thereby flatlining quarterly memory growth which boosted the game revenue by about 2 million dollars per quarter.
- Developed a layer of interactive bot over the game page to guide the players to enable Adobe Flash Player in browsers using HTML, JavaScript, jQuery and React that averted about 40% reduction in game's active users.
- Implemented a Notification System for players on Chrome browser using AWS, MySQL, JavaScript, GCM etc. that acted as a source of reminder for the least active players in the game thereby improving player retainment by 8%.
- Developed a web interface and a distributed service to handle GDPR requests for Farmville 2 game, https://zyngagames.com website and Friends microservice using AWS, PHP, Couchbase.

PROJECTS

Intrusion Detection System   Jan 2016 – May 2016

- Built a Unified Network Intrusion Detection System to detect DDOS threats using Snort, Barnyard2, Wireshark in OpenStack cloud which was then integrated with a MySQL database to store and display alerts and input packet details.

Web Crawler & Search Interface   Mar 2020

- Build a WebCrawler using Python to fetch pages related to a certain topic and store them in Elasticsearch cluster.
- Designed a search interface to display top relevant results by fetching those from Elasticsearch instance on Elastic Cloud.

FUSE Filesystem   April 2020

- Added functionalities such as read and write to files and directories, modify timestamps, copy-on-write, hard links, soft links, list (or remove or copy or move) files and directories, modify permissions to a basic FUSE filesystem using C.

INTERESTS/ACTIVITIES

- Won outstanding performer award in 2019 for exemplary handling of performance & platform issues.
- Won outstanding performer award in 2018 for building a mega-feature called National Fair for Farmville 2 which was played by over 50% of the active users.
- Volunteered with Rotaract Club, Bangalore during my undergraduate studies to conduct informative sessions about the advancements in the Computer Science field, in the underprivileged schools.