Angela Burton

Software Engineer

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Education

Vanderbilt University   *Nashville, TN*
Bachelor of Science in Computer Science and Mathematics   *May 2018*

- **GPA:** 3.55/4.0
- **Honors:** Graduated with honors in Computer Science. Completed honors track Math degree program. National Merit Scholarship recipient.
- **Relevant coursework:** Graph Algorithms (graduate level), Design and Analysis of Algorithms (graduate level), Probability and Statistics, Advanced Linear Algebra, Real Analysis, Complex Analysis (independent study), Digital Logic, Computer Organization

Experience

Microsoft, App Center   *Redmond, WA*
Software Engineer   *August 2018 - PRESENT*

- Engaged in design sessions for a new mobile backend offering (Mobile Backend as a Service, or MBaaS) which would allow developers to store data in the cloud and share it between users. Product is currently in preview.
- Built MBaaS modules for App Center's open source SDK. This included implementing CRUD APIs, handling data serialization and deserialization, and building test app functionality in both Android and iOS.
- Maintained existing analytics engine and data export functionality through large features and while on call. On call duties included engaging with customers directly to resolve their issues as well as standard incident resolution. Responsible for both frontend and backend issues.

Microsoft, App Center   *Redmond, WA*
Software Engineering Intern   *Summer 2017*

- Implemented the serialization of App Center Analytics data for export to Application Insights to attain feature parity with Hockey App (a product similar to App Center that Microsoft acquired and was deprecating). Currently App Center exports roughly 600k logs per minute to Application Insights.
- Collaborated with the Application Insights team and PMs familiar with Hockey App to create an export schema that would give customers the smoothest transition into App Center.
- Demoed the final product to the App Center team during the final all-hands meeting of my internship.

New York Institute of Technology   *New York, New York*
NSF Research Experience for Undergrads (REU) Fellow   *Summer 2016*

- Developed a machine learning model in MATLAB to identify if a given person was driving a car using driver simulation data that had been previously collected by my faculty mentor.
- Presented the research in final and mid-point talks and gave smaller weekly progress presentations. Based on these talks, I was selected out of my cohort to attend the 2016 Council on Undergraduate Research's REU Symposium to present my research.
- First author on a conference paper about machine learning driver identification, published by my mentor and others.

Java Immutable Collections   *Frostburg, MD*
Open Source Contributor   *Summer 2015*

- Built a multiset for Java Immutable Collections, which is an open source library of immutable data structures. Expanded functionality for data structures already in the library.
- Designed and implemented a stress test for all data structures in the library. This supplemented unit tests by testing library functionality with random values, ensuring there weren't edge case bugs that were being overlooked.
- Migrated the project from SourceForge to GitHub, which included moving prior releases and setting up the project website using GitHub Pages.

Skills

Languages   C#, Java, Objective-C, Python, MATLAB, LaTeX
Tools & Technologies   .NET, .NET Core, Android, iOS, Cosmos DB, Azure Storage

Presentation

DevFest Seoul by Google Developer Group Korea *Seoul, S.Korea*

PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE> *Nov. 2017*

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference) *Seoul, S.Korea*

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS> *Jul. 2012*

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Publications

Driver identification and authentication with active behavior modeling *12th International Conference on Network and Service Management*

FIRST AUTHOR *September 2016*

- Based on research done at NYIT

Extracurricular Activity

Ada's Developer Academy *Seattle, WA*

MENTOR, MOCK INTERVIEWER *October 2019 - PRESENT*

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