

Adnan Shaikh

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EDUCATION

- **The University of Texas at Dallas** Dallas, TX
Master of Science in Computer Science; GPA: 3.80 *Aug. 2019 - Expected May 2021*
- **Vishwakarma Institute of Technology** Pune, India
Bachelor of Technology in Computer Engineering; GPA: 8.03/10 *Jul. 2013 - May 2017*

EXPERIENCE

- **Amazon** Seattle, WA
Software Engineer Intern *May 2020 - Aug. 2020*
 - **Migrate to AWS:** Migrated serving the frontend of an existing tightly coupled monolithic service written with SpringMVC and moved it to AWS using S3, Amplify, and CloudFront. This decoupled frontend allowed our team to launch our product more effectively in multiple marketplaces.
 - **CI/CD:** Set up a continuous integration/deployment solution on AWS using CDK, CodeCommit, CodeBuild, CodePipeline, and Lambda along with metrics to track API usage and alarm on-calls in case of excessive errors.
- **Persistent Systems** Pune, India
Software Engineer *Jul. 2017 - Mar. 2019*
 - **Win32 Service:** Ported an agent-less client from Java to C++ as a Win32 service to improve runtime performance and reduce its memory footprint for low-spec ATMs.
 - **Updater:** Implemented a separate updater service to handle seamless background updates of the main application.
 - **Installer:** Created Windows Installer (MSI) merge modules and installers using InstallShield along with build automation scripts.

Software Engineer Intern *Aug. 2016 - Dec. 2016*

 - **Backend Stack:** Implemented an agent-less approach using Windows Management Instrumentation, in order to get the real-time status of nearly 10,000 cross-platform enterprise endpoints.
 - **Performance:** Increased query throughput by nearly 3x by implementing a thread-safe cache to reduce authentication requests.
 - **DLL:** Wrote a Windows DLL to interface COM/DCOM WMI functions over to Java using the Java Native Interface.

Software Engineer Intern *Jun. 2015 - Aug. 2015*

 - **Compiler:** Extended Python 3's language support by parsing Devanagari numbers and various Unicode math operators like union, intersection, subset, etc.

PROJECTS

- **Spending Tracker:** Personal spending tracker combining data from various OFX feeds and Splitwise using Python, React, NodeJS and Machine Learning for transaction classification.
- **Xposed Module:** An Xposed module written in Java to disable the explore feed of Instagram by reverse engineering the APK.
- **Freelance Android App:** Developed a proof-of-concept Android app for a client that consisted of an SQLite, GraphQL, AWS Amplify and AppSync backend. Built entirely in Kotlin.
- **Game Engine:** Ongoing development of a personal 3D engine to practice graphics techniques. Supports forward rendering, shadow maps and SSAO. Built using C++ 14 and OpenGL 3.3