Adnan Shaikh

Email : adnan.shaikh1806@gmail.com

https://www.adnanshaikh.com

EDUCATION

- **The University of Texas at Dallas** — Dallas, TX
  Master of Science in Computer Science; GPA: 3.889 — *Aug. 2019 - 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 Development Engineer I — *Jun. 2021*
  - **Amazon Business Payments**: Working on the Business Payments Products team.

- **Amazon** — Seattle, WA
  Software Development 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.

  Acadameic 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.

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