

Murtuza Kainan

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Experience

Software Development Engineer II, Amazon

Connect, AWS; New York City, NY – July 2021-Present

Developed backend services and production infrastructure for new features being added to AWS's cloud based contact center product. Lead the development of telemetry and deployment infrastructure for these services.

Software Engineer, Application Frameworks, Bloomberg L.P.; New York City, NY – April 2018-July 2021

Designed and developed features for the new JavaScript based runtime powering the Bloomberg Terminal and its associated server-less backend compute infrastructure. Prototyped and released new features, developer tools, instrumentation, and performance optimizations for the primary application framework running on top of the JavaScript runtime. Contributed to recruiting at Bloomberg by performing technical interviews for software engineering candidates.

Software Engineer, Equities Financial Applications, Bloomberg L.P.; New York City, NY – August 2017-March 2018

Contributed to a new data ingestion backend architecture for financial applications delivering equities data to Bloomberg Terminal users. Implemented and deployed into production a new data ingestion service that powers a highly used equities data application. Designed, developed, and deployed of an automated ticket management system for the team.

Software Engineer Intern, Qualtrics, Seattle, WA – May 2016-August 2016

Designed and developed a mobile SDK for embedded deployment of surveys and ads in customer applications for iOS and Android. Contributed performance improvement features to the survey embedding platform, and prototyped a new micro-service to power the platform's content management API.

Education

Purdue University, West Lafayette, IN, USA - August 2013-May 2017

Bachelor of Science in Computer Science with a minor in Physics, CGPA: 3.52,
Concentrations: Systems Programming, Artificial Intelligence, Software Engineering

Technical Knowledge

Programming Languages

I am proficient in and have spent the most time working with the following languages: JavaScript/TypeScript, Python, C/C++, Java. I am very interested in, but have basic knowledge, of Rust, Golang, and the Lisp family of languages.

Web Technologies

I am familiar with frontend web development using frameworks such as React, and Angular. I have also worked on backend services using a variety of programming languages and runtimes such JavaScript/Node.js, Python/flask, and Java, and C++. I am also familiar with

the multi-process architecture of Chromium and have basic knowledge of embedding JavaScript runtimes using the V8 JavaScript engine.

System Design and Operating Systems

I have a working knowledge of, process management, system calls, multi-threaded application design, and OS/Kernel features for UNIX-like operating systems. I have limited knowledge win32 APIs and desktop technologies. I have an understanding of the tradeoffs involved when trying to design scalable, fault tolerant, and resilient distributed systems.

Databases Technologies

Working knowledge of SQL based relational database technologies and NoSQL document based storage system. Basic knowledge of search platform technologies such as Apache SOLR and ElasticSearch.

Software Engineering Workflow

Working knowledge of the git source control system. Working knowledge of agile software development methodology and iterative, scrum based development practices.

Data Science and Machine Learning

Working knowledge of logistic regression, Naive Bayes Classification, and K-means clustering analysis. Basic knowledge of neural network based supervised and unsupervised machine learning approaches.