

Rohan Khera

Software Engineer

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TECHNICAL SKILLS

Main Languages | C++17, Python, Java

Front End | JavaScript (ES5 and ES6), React.js, Next.js, HTML5, CSS3

Back End | Node.js, PostgreSQL, Snowflake, MongoDB, Concurrency, Network protocols (Ethernet, TCP/UDP/IP, etc.)

Testing/Deployment | Bamboo, Heroku, NI TestStand, AWS: EC2, Shell Scripting

Developer Tools | Git, npm, Agile Methodology, Jira/Bitbucket, TDD, Clang, CMake

WORK EXPERIENCE

Software Engineering Intern | JPMorgan Chase & Co

2022

Corporate Investment Banking - Payment Technologies

Snowflake | Redis | DynamoDB | PCI Compliance

- **Tokenizer Project:** Secured millions of credit card transaction data points by creating SHA256 token rotation lambda. 10,000 transactions secured on a nightly basis. Also supported CI/CD, code coverage/quality detection.
- **Snowflake-MSDS Project:** Leveraged Snowflake data warehouse to migrate 100+ Merchant Services data tables from Redis to Snowflake architecture. Currently measuring performance increase but looking to be at least 190%.

SMG Cloud Technical Intern | Intel

2022

Cloud Based Technology Solutions for Global Partners

AWS | Linux | Kubernetes | Docker | Azure

- **Cloudboard Project:** Developed a dashboard to optimize the cloud computing needs of clients by analyzing containerization, database, data warehousing, ETL/data ops, and security needs. Resulted in up to 16% reduction in cost for services.
- **Quick Demo Project:** Wrote scripts to beautify the demonstration of 3 major projects. Will be used at AWS re:Invent 2022.

Software Engineering Intern | Plexus

2021

Medical Device Testing Automation

Atlassian Tools | NI TestStand | Remote Agents | Java TDD

- Generated automation testing software for a class C medical instrument in Linux (PuTTY) and Windows CI Platform.
- Used tools such as Bamboo, BitBucket, and TestStand to create 8 new test plans and produce 6 design documentations.

Software Engineering Intern | Coderrect Inc.

2021

C++ Static Analysis Tool for Race Condition Detection

Circle CI | React-Bootstrap | npm | Clang | CMake

- Part of a startup team working on an open source project for static race condition detection in multithreaded code with support for OpenMP, Pthreads, std::thread, and GPU/CUDA - Created the #1 ranked platform on DataRaceBench.
- Designed and built user interface for race detection tool using MongoDB, Express, React.js, and Node.js (MERN stack).

PROJECTS

Virtual Psychiatrist Diary for Anxiety and Depression Monitoring

2022

Developing a Natural Language Processing based app to produce sentiment analysis on a user for accurate diagnosis of mental illness.

Down Syndrome Association of Brazos Valley App Development Project Manager

2021

Led a backend team making a web app for admins to be able to create and modify events for 30+ students and parents (MERN).

Eye Movement Based Communication System for ALS Patients

2020

Developed an internationally awarded system which integrated signal processing to use eye movements as input for language output.

EDUCATION AND CERTIFICATIONS

Texas A&M University - Bachelor of Science, Computer Science

Graduating 2023

Coursework: Programming Design, Data Structures & Advanced Algorithms, Programming Languages, Machine Learning

AWS Cloud Practitioner

Completed 2022