

Rishabh Khanna

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EDUCATION

Masters in Computer Science August 2018 - December 2019
University of Florida
GPA: 3.72/4.0
Relevant Courses : Distributed Systems, Data Structures, Analysis of Algorithms

Senior Certificate in Computer Science January 2018 - May 2018
University of Florida
Relevant Courses : Operating System, HCI, Database Systems, Networks

EXPERIENCE

Software Engineer Intern May 2019 - August 2019
Akamai Technologies, Santa Clara, California
• Developed REST API to serve page load time and beacon data in mPulse product, used to Monitor, find, and fix website and application performance issues from Real User Data.

Product Engineer and Instructor May 2018 - August 2018
Coding Blocks, Delhi, India
• Taught full stack development at coding blocks(coding bootcamp)
• Responsible for development and deployment of student resource android app.

Software Developer Intern December 2016 - November 2017
Coding Blocks, Delhi, India
• Developed an Android app to inflate books consuming gitbook.com API
• Released on [Google Play Store](#) with 4.5 average rating
• Mentored students at coding bootcamp in Android App & Web development

OPEN SOURCE PROJECTS

Pi Bot — Raspberry Pi, Android, Node JS, Express JS, Web Sockets
• A car bot built using Raspberry Pi controlled by android app using phone sensors(accelerometer).
• Developed an Android App to deliver accelerometer data to Raspberry Pi in Real Time using socket.io

Bitcoin Simulator — HTML, CSS, Javascript, Elixir, Distributed Systems
• Implemented the Bitcoin protocol to be able to mine bitcoins, implement wallets, transaction of bitcoins and a web interface using Phoenix framework which accesses a simulator with more than 100 distributed participants.
• Developed unit tests to for each task in the distributed network.

Linux Kernel Patch — C, Kernel Forked from AOSP
• Modified the kernel source code such that each process have a custom process table attribute named access level and each file to have a custom file attribute named security tag
• Developed system calls that allow process to get and set process attribute (access level) and user to set and get file attribute(security tag)
• Developed static library that allow the system calls to be invoked via a C API

News Chat — Android SDK, Java, XML, Backend: Node JS, PostgreSQL
• Native Android app with 1K monthly active users where users can rate and comment on scraped news from Times of India
• Implemented real time chat, notifications through Firebase cloud message API
• Developed a server based app using Express JS to serve REST API.
• Released on [Google Play Store](#) with 4.2 rating and Backend is hosted on AWS

Outline Toggle Button Android Library — Android SDK, Java
• An open source Android Library starred by more than 35 developers on Github to make different kind of buttons in Android Apps

Swipe Drag Recycler view Library — Android SDK, Kotlin, Java
• An open source Android Library starred by more than 40 developers on Github to provide Long press drag and swipe functionality for recycler view items.
• Developed unit tests and enabled continuous integration with Travis CI.

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Technical Skills

Languages

- Java(5+ years exp.)
- Node JS /JavaScript(3+ years exp.)
- Kotlin(1+ years exp.)
- C/C++
- C#
- Python
- Typescript
- Ruby
- Elixir
- PHP
- HTML,CSS
- Shell/Bash Scripting

Frameworks and OS

- Android(3+ years exp.), Linux
- Express JS
- Mean Stack
- React JS
- Distributed Systems

Database & Version Control

- Mysql, PostgreSQL(4+ years exp.)
- Oracle
- SQLite
- MongoDB
- Git (3+ years exp.), Github

Microservices and Hosting

- AWS, Digital Ocean
- Firebase
- Heroku
- Docker, Kubernetes

Hackathons:

- [DigitalOcean - 2nd Position](#)
- Knight Hacks, UCF
- Hack In Out
- Mentor at SwampHacks 2019

Open Source Contributions:

- [OpenMF Self Service App](#)
- [FossAsia Event Web App](#)
- [CB Digital Ocean Android App](#)
- [FossAsia Open Event App](#)

Achievements:

- [Android Project pulled under FossAsia for GSOC 2017](#)
- Co-ordinator at Google Developers Group IIIT
- Delivered a hands on session on making android apps (Activity life cycle,Fragments, Broadcast Receiver,Sensors) with more than 100 students