

# MUTHUKUMARAN PK

Brooklyn, NY | 347.209.8423 | muthu@nyu.edu

**LinkedIn:** [linkedin.com/in/muthukumaranpk/](https://www.linkedin.com/in/muthukumaranpk/)

**GitHub:** [github.com/Abmuthu](https://github.com/Abmuthu)

**Portfolio:** [muthukumaranpk.com/](https://muthukumaranpk.com/)

## TECHNICAL SKILLS

- **Proficient:** Java, Android, Spring, Hibernate, SQL, HTML, CSS, JavaScript, AngularJS, Git
- **Exposure:** Bootstrap, Python, VHDL, Firebase

## PROFESSIONAL EXPERIENCE

### Quality EDGAR Solutions | Software Developer | New York, NY

August 2017 - Present

- Engineered file conversion architecture for converting Typeset files into html files using Java, increasing file conversion rate by 94%, and reducing inconsistencies by 50%.
- Developed UI that facilitates font mappings using JavaFX, reducing user interaction time by 75% compared to CLI.
- Implemented MySQL database to persist font mappings and user metadata for future analysis, improving prediction accuracy of font matching algorithm by 30%.

### Edu.chat | Android Developer Intern | New York, NY

June 2016 - September 2016

- Collaborated with 3 engineers and incorporated asynchronous db updating and network call mechanisms to reduce the load on UI thread of Android app using Java, okHttp and SQLite increasing responsiveness of UI by 30%.
- Increased Play Store rating from 3.5 to 4.0 by creating advanced search bar with custom animations to search for users and content globally using Java and various native Android APIs.
- Devised sent, received and seen features of messages for Android app using Socket.io, increasing user base by 20%.

## EDUCATION

### Master of Science in Computer Engineering, NYU Tandon School of Engineering (GPA: 3.8)

May 2017

### Bachelor of Science in Computer Science and Engineering, Pondicherry University (GPA: 3.64)

May 2015

## ACADEMIC PROJECTS

### Car Tracker | Full Stack Developer | [Project URL](#)

2017

*Full-Stack IOT project that collects data from cars to provide safety alerts and useful trip information.*

- Created RESTful backend api with PUT, POST and GET endpoints using Java, Spring and Hibernate to handle 1K+, 10K+ and 100K+ requests per second respectively.
- Architected front end web application for displaying alerts and location details using JavaScript and AngularJS, increasing user base by 50%.

### Death Matters 2 | Android Developer | [Project URL](#)

2017

*Updated version of Death Matters App with added ability to view friends' life statistics in new custom UI.*

- Built asynchronous mechanism for integrating various API and cloud data storage using Java, Facebook Graph API, Firebase and SQLite, increasing amount and accuracy of information by 75%.
- Designed cleaner UI with 50% fewer UI components by integrating recyclerviews that can create, update and delete each other's items using custom Adapters and listeners.

### Death Matters | Android Developer | [Deploy URL](#)

2016

*Productivity Android App that motivates users by providing statistics about their life.*

- Designed death age prediction algorithm using Java whose accuracy increases by up to 10% for every 100 new users.
- Automated error log reporting as stories using JIRA logging interface, expediting bug removal process by 100%.

## LEADERSHIP + AWARDS

### Grow with Google Scholarship, Google

2018

### Academic Excellence Award, New York University

2016