

# Ramaseshan Parthasarathy

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## SKILLS

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- **Languages** Java, SQL, Python, HTML/CSS, JavaScript, C, L<sup>A</sup>T<sub>E</sub>X
- **Frameworks** Spring, Apache Camel, Flask, Node.js, React, Android SDK
- **Libraries** SQLAlchemy, BeautifulSoup, boto3, scikit-learn, NumPy
- **Database** Stored Procedures, Functions, Triggers, Indexes
- **Workflow** Linux, Git, JIRA, Jaspersoft Studio, Heroku

## WORK EXPERIENCE

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### Stonewain Systems, Inc.

September 2018 – Present

– *Software Developer*

Berkeley Heights, NJ

- Utilized Spring to develop Java business classes and Camel jobs that generate, send, process, and calculate data
- Improved application performance approximately 20% by refactoring old Oracle queries and stored procedures
- Enhanced functionality of the reporting engine by implementing custom Excel, CSV, and TXT export options
- Incubated a data-analytics project that utilizes machine learning in Python to predict securities lending rates

### Stonewain Systems, Inc.

June 2018 – September 2018

– *Software Developer Intern*

Berkeley Heights, NJ

- Designed, implemented, and tested Jasper reports for financial institutions using Oracle 12c stored procedures
- Reconciled discrepancies in client reports and updated them based on new requirements and system changes

### Archangel Raphael's Mission

October 2017 – April 2018

– *Volunteer Software Engineer Intern*

New Brunswick, NJ

- Developed and maintained the website at [armnewbrunswick.org](http://armnewbrunswick.org) for a local charity with 100% uptime
- Designed the front-end using Python's Jinja templating engine, Bootstrap, JavaScript, and JQuery
- Created a Flask REST API to serve the templates and integrated Stripe API to accept donations

## PROJECTS

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### Messenger Client <https://github.com/rpartha/simple-messenger>

- Developed a robust React-based IM client that communicates with a Node multi-server using Socket.IO
- Utilized mesh topology server architecture to establish and maintain connections between server instances
- Implemented scrollable message history, recipient status notifications, and automatic thread switching

### Safe Alarm IoT Network <https://github.com/rpartha/safe-alarm>

- Collaborated in a team to develop an IoT network that can detect and notify users when in-house alarms ring
- Built the Android app featuring user authentication, alarm pairing via QR-code scanner, and push notifications

## EDUCATION

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### Rutgers University

September 2014 – May 2018

B.S. in Computer Science and Computer Engineering

New Brunswick, NJ

### Awards & Certifications

- Visharad Purna (Bachelor's Degree) in Tabla – issued by Madhyam (January 2020)
- 4<sup>th</sup> Place, HackRU – Rutgers University, New Brunswick (April 2017)