AAKSHAYE M GAIKAR
Rochester, NY
aakshaye@yahoo.co.in | aakshaye.github.io | 585 766 7418 | linkedin.com/in/aakshaye | github.com/aakshaye

SUMMARY: A full stack developer with 4 years of experience looking for a full-time opportunity starting immediately to apply my skill set, thus profitably contributing to the organization.

EDUCATION:

Rochester Institute of Technology, Rochester, NY	Master of Science in Computer Science (GPA: 3.33)	Graduation - August 2020
University of Mumbai, Mumbai, India	Bachelor of Engineering in Computer Engineering	Graduation - May 2013

SKILLS:

Programming Languages: Java, Python, Javascript, Node.js, PHP, Typescript, C++, Bash, R
Databases: SQL, MySQL, MongoDB, Amazon DynamoDB, Redis, Oracle
Frameworks and Libraries: Express.js, MongooseJS, Spring Boot, Hibernate, Laravel, CodeIgniter, PassportJS
Frontend Technologies: ReactJS, Redux, jQuery, HTML5, CSS3
DevOps: Docker, Ansible, Heroku
Version Control: Git, Svn
Tools: Maven, Postman, SendGrid, Stripe, Ngrok, Jira, Weka
Operating Systems and Application Servers: Linux/UNIX, Windows, MacOS, Apache, NGINX

WORK EXPERIENCE:

Rochester Regional Health **Software Engineer Co-op** **September 2019 – May 2020**
- Developed and refactored around 100 reusable components using React and Redux for an application that optimizes nurse patient ratios.
- Programmed functions for AWS Lambda in this serverless application with DynamoDB to provide high scalability and quick deployment.
- Designed and developed an entire module to send/receive real-time nurse requests across hospitals using PubNub.
- Developed an API for AWS Lambda using Node.js to connect to the Amazon S3 service to store and retrieve images.
- Leveraged Redux sagas for creating an efficient and easily manageable application.
Technologies Used: Node.js, React, Redux, AWS Lambda, DynamoDB, Amazon S3, Git, Jira

Affinity Global Advertising **Software Engineer** **June 2015 – July 2017**
- Built a convenient web app - Ad-Creator, to automate the process of advert creation, saving the team 3 hours each day.
- Produced and programmed functionality to undo & redo actions and integrate multimedia components with Ad-Creator to improve usability.
- Formulated a scalable REST service with a real-time Redis queue and file caching for filtering web pages with offensive textual content.
- Developed a Google Chrome Extension for training a decision tree classifier based on internal user inputs to assist in above filtering.
- Implemented modules to communicate with multiple databases to extract metrics for improved advertisement targeting.
Technologies Used: PHP, Javascript, Node.js, MySQL, Redis, jQuery, Typescript, Bash/Shell, Git, Svn, Apache, NGINX

Inscripts **Software Engineer** **August 2013 – October 2014**
- Implemented pinning contacts, starring messages and other features in messenger using Atmosphere Framework for WebSockets.
- Developed customized modules for real-time message delivery and integrated CometChat with frameworks like Laravel, CodeIgniter.
Technologies Used: PHP, Java, MySQL, Javascript, jQuery, Laravel, CodeIgniter, Atmosphere Framework, Git, Apache

PERSONAL PROJECT:

Email Survey Management Application (https://tinyurl.com/y64s8qkt)
- Created and deployed an application to send and manage email surveys using Node.js, Express.js, ReactJS, Redux and MongoDB.
- Implemented user login process via Google OAuth integration using PassportJS to enable convenient login.
- Implemented user credit functionality in Express using Stripe API for easy credit card payments.
- Used MongoDB to store user data and survey information through Mongoose.js library.
- Leveraged the SendGrid API into Express for sending emails and tracking survey results.
- Used Ngrok for webhook testing locally and deployed the application to Heroku using Git.
Technologies Used: Javascript ES6, Node.js, Express.js, ReactJS, Redux, MongoDB, MongooseJS, Heroku, Git, Ngrok

ACADEMIC PROJECTS:

Reliable Data Transfer Protocol (Technologies Used: Python)
- Implemented TCP features such as retransmission, packet reordering and congestion control over a UDP connection.
Routing Information Protocol (Technologies Used: Python)
- Implemented RIPv2 using distance vector routing for computing shortest paths between nodes.
- Features implemented included route cost updates, split horizon with poisoned reverse and triggered updates for isolated routers.
Hangman Game (Technologies Used: Java)
- Designed and implemented a console-based game in Java with client server architecture using multi-threading.
- Two versions of the game were made, one using RMI and the other using TCP/UDP networking.
GPS Data Analysis, Visualization, and Anomaly Detection (Technologies Used: Python, Google Earth, Pandas, NumPy):
- Processed GPS data to find locations of left/right turns and stops in a trip.
- Such analysis is useful for delivery services to reduce fuel and time consumption by reducing the number of left turns on their path.
Fake News Detection (Technologies Used: Python, Pandas, Scikit-learn, NumPy)
- Performed preprocessing tasks and data normalization on a Kaggle competition dataset.
- Applied multiple machine learning algorithms like Naive Bayes and Random Forests on text data to achieve over 80% prediction accuracy to detect fake news.