AAKSHAYE M GAIKAR

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OBJECTIVE: A passionate programmer with over 3 years of professional experience as a full stack developer, looking for a co-op starting August 2019 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: 3.24
Graduation - May 2020 (Expected)

University of Mumbai, Mumbai, India
Bachelor of Engineering in Computer Engineering
GPA: 3.1
Graduation - May 2013

SKILLS:

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

WORK EXPERIENCE:

Rochester Institute of Technology (ITS) Programmer Intern July 2018 – August 2018

- Improved performance of admin portal by 20% with upgrade of Qcubed framework v2.2 to v3.0 and PHP 5 to PHP 7

Technologies Used: PHP, Qcubed Framework, Oracle, Git

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 integrated 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, 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 (*Python*)

- Implemented TCP features such as retransmission, packet reordering and congestion control over a UDP connection.

Routing Information Protocol (*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 (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(*Python, Google Earth, Pandas, Numpy*):

- Parsed GPS data to generate KML files to visualize data on Google Earth. Analyzed 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 (*Python, Pandas, Scikit-learn, Numpy*)

- Performed data normalization and cleaning tasks 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.