

Saifil Momin

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EDUCATION

Georgia Institute of Technology, Atlanta

May 2021 (Expected)

M.S. in Computer Science

Current Courses: Advanced Operating Systems, Real Time Systems, Machine Learning for Trading, Data and Visual Analytics

University of Mumbai, D.J. Sanghvi College of Engineering, India

June 2015 - May 2019

B.E. in Information Technology

Relevant Courses: Data Structure and Algorithm Analysis, Object Oriented Programming Methodology, Advanced Database Management

SOFTWARE SKILLS

- Programming Languages: C, C++, JAVA, Python, PHP
- Android Development: Android Studio, Android with Firebase, Google Volley
- Web Technologies & Databases: HTML5, JavaScript, jQuery, CSS with Bootstrap, SQL, Firebase (NoSQL)
- Tools and Software: MATLAB, Scilab, Unity, Eclipse, PyCharm, PhpStorm

PROFESSIONAL EXPERIENCE

S S SERVICES | Mobile Application Development Intern | Hyderabad, India

June 2018 – August 2018

- Developed an android application for analyzing and visualizing of data that enabled admin to make informed business decisions.
- Designed and implemented relational database schema in SQL and handled HTTP client requests using Google Volley.
- Optimized image compression using JAVA to reduce the image upload time to one-tenth of the original.
- Enabled change-in-schedule approval request to admin using end-to-end push notifications using Google's Firebase Cloud Messaging.
- Enhanced the user interaction in app by implementing seamless UX, interactive UX/UI dashboard and multi-language support.

ACADEMIC PROJECTS

P.O.W.E.R.: Crowd-sourcing platform for projects promoting Women's Empowerment | Web | Android

- Implemented Interactive Voice Response (IVR). and user authentication using One Time Password (OTP).
- Authenticated users by UID and secured user biometric data by implementing data encryption using MD5 algorithm in PHP.
- Assisted in implementing recommender system using collaborative filtering using K-means clustering, analyzed reviews for offensive content detection using LSTM based classifier.

GOETOLL: Automated toll payment android app using live user location | Android

- Implemented geotagging using Google Geofire to track user's entry in toll booth proximity to provide push notifications for payment.
- Developed secure payment gateway using Razorpay payment service, and digital receipt generation using QR-code.
- Integrated Object Character Recognition (OCR) to extract information from driver's license.
- Implemented recursive K-nearest node searching (finding all tolls nearby user) in linear time complexity $O(n)$.

OUTSIDER: An event management website to host, search, and register for nearby events | Web

- Incorporated joint event hosting using real-time chat box and implemented automatic email reminder using server-side PHP.
- Scaled the project by integrating responsive UI using bootstrap, jQuery to enable effortless mobile access, and content-based filtering (recommender system) using Bayesian classifier for suggesting events.

AUTONOMOUS MILITARY VEHICLE

- Implemented navigation algorithm using curiosity-based reinforcement learning (RL) for computing learning agent's path to destination.
- Created a dynamic military environment in Unity3D, and integrated the navigation algorithm in the same.
- Published paper on the same in the *International Journal of Emerging Technologies and Innovative Research*, December-2018.

ACADEMIC PUBLICATIONS

- Momin, S., Bohra, T. and Raut, P. (2019). Prediction of Customer Churn using Machine Learning. *EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing*.
- "Classification of WBC for Blood Cancer Diagnosis using Deep Convolutional Neural Networks", *International Journal of Research in Advent Technology*, ISSN: 2321-9637, Vol.6, Issue 12, page no. pp3576-3581, December-2018.

HONORS AND EXTRA CURRICULAR ACTIVITIES

- Finalist for Smart India Hackathon 2018 - MyGov Innovation (Organized by Government of India) amongst 17,539 teams.
- Finalist for Tata Consultancy Services CodeVita 2017 (Global Rank 217) amongst 99,473 participants.
- CodeChef Division-1 coder (codechef.com/users/saifil_07).
- Member of Organizing Committee of Codeshastra 3.0 by CSI (24hr Hackathon attended by 48 teams from Mumbai).