

Joe Tom Job

39800 Fremont Blvd, Apt 132 | Fremont, California, 94538 | joetomjob@gmail.com | +1(585)-629-3116
LinkedIn : www.linkedin.com/in/joetomjob Github : <https://github.com/joetomjob>

EDUCATION

Rochester Institute of Technology Rochester, NY

Masters in Computer Science, Core Areas - Artificial Intelligence and Big Data

GPA-3.82

TECHNICAL SKILLS

- Languages : Java, C#, Swift, TypeScript, C, C++, Python, JavaScript, jQuery, HTML5, CSS3, R
- Database : SQL Server, MySQL, PostgreSQL, MongoDB
- Frameworks : Angular 6, ASP.NET, MVC, Android SDK, Websockets, Kubernetes, Entity Framework, Selenium, Protractor, Git, SOAP, RESTful web services, RESTful APIs, TFS, Numpy, Pandas, Sci-kit, Firebase, Keras, OpenGL.
- Software processes and tools : Git, JIRA, Confluence, Jenkins, Stash, Postman, Scrum agile software methodology

EXPERIENCE

Tesla Motors

Fremont, CA

Software Engineer

Manufacturing Operating System

June 2017 - Jan 2018, May 2018 - Aug 2018, Jan 2019 - present

- Working as part of the factory software Front end team for creating the Manufacturing Operations System application used for orchestrating the entire factory process in Tesla.
- Developed an Android application for material management application(MOS) used in Tesla Fremont factory, Gigafactory Nevada, Gigafactory 2 Buffalo, Tesla factory Ireland.
- **Technologies** : Angular 6, Android SDK, Java, Websockets, Go, TypeScript, MySQL, SQLite

Rochester Institute of Technology Rochester, NY

Graduate Research Assistant

Multi Node Label Routing Protocol (MNLr)

Jan 2017 - June 2017

- Implemented new protocol for network communication for a NSF funded project.
- Designed the algorithm for forwarding the IP packets in the protocol.
- Created scripts to automate processes and cleaned up the entire stack and improved the code readability.
- **Technologies** : C, Python, Linux, Emulab, GENI, Git.

Cognizant Technology Solutions

Kochi, India

Associate

Global Mobility Management

Jan 2014 – July 2016

- Designed and developed a website which handles end to end visa processing of cognizant.
- Developed WCF Web services, RDLC reports and stored procedures for the project.
- **Technologies** : ASP.NET, C#, jQuery, JavaScript, HTML5, CSS3, SQL SERVER 2012, TFS, IIS, MVC, RDLC.

Cognizant Technology Solutions

Kochi, India

Programmer Analyst

Global Workforce Management

Nov 2012 – Jan 2014

- Designed and developed a website which deals with resource allocation and optimization of all employees.
- **Technologies** : ASP.NET, C#, jQuery, JavaScript, HTML5, CSS3, SQL SERVER 2012, Entity Framework, RDLC, TFS, IIS.

ACADEMIC PROJECTS

Gender Recognition by Voice using Machine Learning Techniques

- Machine learning techniques were applied on acoustic properties of voice to predict the gender.
- Achieved an accuracy of over 97% in predicting the gender using Random Forest Classifier model.
- **Technologies** : Python, Rattle, R, Sci-kit, Numpy, Pandas, Keras

Student Housing

- Developed an iOS application using swift which acts as a platform for students looking for housing.
- **Technologies** : Swift, MVC, Firebase, Xcode

Missing ECG Signal Reconstruction using Neural Networks

- Developed effective method to reconstruct the ECG signals using supervised learning methods(neural networks) which were used to fill in short missing segments in multi parameter ICU cardiovascular data using MATLAB.
- **Technologies** : Python, MATLAB, Linux

Movie Insights

- Proposed a predictive model leveraging supervised learning over the IMDb dataset combined with an external movie awards dataset to predict the overall rating of any movie.
- **Technologies** : PostgreSQL, Weka, R

Energy Efficient Assisted GPS Measurement and Path Reconstruction

- Developed a software to reduce power consumption of wearable GPS and cellular tracker devices.
- GPS history data collected were filtered, clustered and pruned to detect frequently visited locations and crucial locations (for path reconstruction purpose).
- **Technologies** : Python, MATLAB, Linux

EDUCATION/PROFESSIONAL/DEVELOPMENT ACHIEVEMENTS

- Microsoft Certified Professional in Querying Microsoft SQL Server 2012