

Joe Tom Job

6354 Joaquin Murieta Avenue, Unit J | Newark, California, 94560 | 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, TypeScript, Go, C#, HTML5, CSS3, Python, JavaScript, Swift, C
- Database : SQL Server, MySQL, PostgreSQL
- Frameworks : Angular 8, ASP.NET, MVC, Android SDK, Websockets, Kubernetes, Entity Framework, Git, SOAP, 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

Factory Software

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

- Working as part of factory software team to build FLUX application used for Equipment management in factory and 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 8, 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 an 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