

# Masi Nazarian

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## Education

- **M.S. Software Engineering.** San Jose State University. CA. [Evening Program - in progress]. **2017 - 2018**
- **B.S. Mining Engineering.** University of Tehran. Tehran. Iran. [Top 3 in program]. **2009 - 2013**

## Technical Knowledge

- Data Structures and Algorithms • Object-Oriented Program Design • Agile Methodologies
- C++ • C • Assembly X86 • Java • R • MySQL | NoSQL • .Net Frameworks (familiar)
- Python [ TensorFlow | Keras | scikit-learn | NumPy | spaCy | virtualenv | pyenv | pyenv-virtualenv ]
- Jupyter Notebook • Time-Series Analysis • ARIMA • Facebook Prophet • Unix | Linux • Bash
- JavaScript [ AJAX | jQuery | Django ] • HTML5 | CSS | Bootstrap • PHP • TCP/IP

## Relevant Coursework

- Assembly X86. Advanced Computer Architecture (Coursera). Database Design. Operating Systems. OOP Design & Data Structures. Advanced Java. Data Mining. Big Data. Machine Learning (Coursera). NLP | Deep Learning (Stanford ICME). Enterprise Software Systems. Numerical Computations.

## Projects

- **US Stock Market Prediction** (ANN | LSTM | FB Prophet | ARIMA | AngularJS). **Dec 2017**
- **Cryptocurrency Price Prediction** (Time Series Analysis | FB Prophet | ARIMA | Python) **Dec 2017**
- **IntelliGame, a Java-based Game** (Greenfoot Game Engine | Design Patterns | Java) **Nov 2017**
- **Twitter-like App for Stock Market** (Bootstrap | Django | Django REST API | AJAX | jQuery). **July 2017**
- **Firmware for a Pump Tester Device** (Arduino | TFT Screen | C). **May 2017**
- **eCommerce Website** (LAMP | HTML | CSS | jQuery | AJAX | JSON). [marketplace.x10host.com](http://marketplace.x10host.com) **May 2017**
- **A Peer-to-Peer Lending Platform Database Design** (MariaDB | PHP | Apache Server | MySQL). **Feb 2017**
- **Room Scheduler** (Java | Eclipse | WindowBuilder | MVC Pattern | Swing | Multi-Threaded). **Dec 2016**
- **Elevator Simulator** (C++ | Microsoft Visual Studio | Microsoft Foundation Classes). **Nov 2016**

## Publications

- **A Fuzzy Decision-Making Model for Candidate-well Selection in Hydraulic Fracturing.** B.Sc. Thesis **2013**  
Designed an expert decision-making system using MATLAB Fuzzy Logic / Artificial Neural Networks.
- **A numerical study of dominant parameters affecting stability of horseshoe-shape tunnel in jointed rock mass based on sensitivity analysis method.** Nazem A., Farough H. M., Nabizadeh H., Nazarian M. International Journal of Mining Eng. and Geo-Eng. [Contributed as the C++ programmer]. **2012**

## Work Experience

- San Jose State University. Machine Learning Research Assistant.** **Oct 2017 - Present**
- University of Tehran. School of Engineering. Teaching Assistant (multiple courses).** **2010 - 2013**
- Research Institute of Petroleum Industry (RIPI). Reservoir Engineer Intern. Tehran, Iran.** **Jun-Sep 2012**
  - Led team of 3 interns to collect core data; Learned required software and prepared well log reports.
  - Communicated with a third-party to define project outlines, and elaborate on expected outcomes.
- Falowrd Co. Tunnel Engineer Intern.** [Subterranean tunneling. Tehran Metro System]. **Jun-Sep 2011**
  - Collaborated with engineering team to control ground subsidence caused by subterranean tunneling.

## Awards and Acknowledgments

- FOE (Faculty of Engineering) Top Student Award **2010 - 2013**
- National Silver Medal in 15th Iranian National Physics Olympiads. Young Scholars Club. **Sep 2003**

## Memberships and Affiliations

- Software and Computer Engineering Society. SJSU.
- Engineers Without Borders (EWB). USA. SJSU.
- Society of Women Engineers (SWE).
- IEEE.
- ACM.