

# Vahid Mostofi

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## EDUCATION

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- **Master of Computer Engineering:** University of Calgary; Calgary, CA Sep. 2019 – (expected: Summer 2021)
- **Master of Computer Engineering:** Shahid Beheshti University; Tehran, IR Sep. 2017 – Aug. 2019
- **Bachelor of Science in Computer Science:** University of Tehran; Tehran, IR Sep. 2011 – Feb. 2016

## EXPERIENCE

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- **Advertiise** Calgary, CA  
*Freelance Backed Developer* *Feb 2021 - Apr-2021*
  - **Design and Implementation of the Backend and the Infrastructure of a Web Aapp:** Design and finalizing the implementation of the backend service and documenting the REST API. Implementing the CI/CD pipeline. Used **NodeJS, GitLab, MongoDB, Swagger, Heroku.**
- **AlgoFactory** London, UK  
*Freelance Model Developer* *Aug 2020 - Nov-2020*
  - **Developing the auto-trading algorithms:** Development and implementation of auto-trading algorithm based on **financial data** in QuantConnect platform.
- **Rahnema** Tehran, IR  
*Freelance Backend Developer* *Apr 2019 - Jul 2019*
  - **ATS system:** Designed and developed an Applicant Tracking System based on microservice design architecture using OAuth2.0, **Java Spring Boot** and **MySQL Database.**
- **Rahnema** Tehran, IR  
*Machine Learning Internship* *Nov 2018 - Mar 2019*
  - **Recommendation System:** Designed and Developed a recommendation system for a push notification app.
  - **Image Classification:** An Image classification task for a **Kaggle** competition of classifying different Wahles. Used Siamese network to train a distance metric learning model. The model finished with a **bronze medal in the top 6%**.
- **YOUTABGAMES** Tehran, IR  
*Co-founder, developer* *Aug 2015 - July 2017*
  - **Game Designer/Developer:** Designed, developed and published three arcade games for Android and iOS using swift, cocos2d-x and Unity. Video of a sample game available at Youtube

## NOTABLE PROJECTS

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- **Custom Kubernetes AutoScaler:** Spring 2021, A hybrid Kubernetes autoscaler (developed in **Go**).
- **Nginx Wrapper For Monitoring Endpoints:** Spring 2021, A pluggable wrapper on Nginx which enables monitoring and reporting HTTP request information (i.e. response times, status, ...) through **Telegraf**.
- **Docker-Swarm AutoScaler (Proactive):** Summer-Winter 2020, An enhanced MAPE system (developed in **Go**) which enable autoscaling on Docker Swarm using Jaeger OpenTracing.
- **Parallel Link Prediction using Node Embedding:** Fall 2019, Design and implementation (using **Apache Spark**) of an algorithm for parallelizing the node embedding approach for link predication in **large graphs** (available at github)
- **Generating Heterogeneous Graphs Using Deep Learning:** Winter 2018, Generating Heterogeneous Graphs Using **Deep Generative Models** as the project for my thesis at Shahid Beheshti University, Tehran, Iran
- **Search Engine for Stackoverflow dataset:** Winter 2017, A search engine using Apache **Lucene** (developed in **Java**) for Stackoverflow public dataset. The search engine could be searched based on different factors like, answers, questions, tags, ...

## PROGRAMMING LANGUAGES / FRAMEWORKS / TECHNOLOGIES

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- **What I have been using mostly in past three years:** Go, Python, Docker, Kubernetes, AWS, Linux environment, Bash scripting, Java, Javascript-Node, SQL, Data Science related Python libraries.