

# Ali Khoramshahi

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## Curriculum Vitae

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### Personal Information

Nationality *Iranian*  
Date of Birth *28/3/1990*  
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### Experience

2018-now **Co-Founder**, STYLIFIER, Berlin/Germany.

Stylifier an styling tool and platform to help user find the right outfit.

Alongside the business model, user experience and growth of the company I also have developed all three part of the solution, consisting from node.js (express) backend, react native mobile app (redux), react web app.

Other technologies involve in these project are: Kong (API gateway), cloudfront, S3, postgres, grafana.

2017-2018 **Developer**, IAMSMART, Berlin/Germany.

iamsmart offers a B2C solution for smarthome application.

During my time at iamsmart I have worked on following tasks:

- Create the software for the gateway as the communication point between the cloud and users devices. (Custom build Linux box)
- Orchestration and fleet management of gateways and devices.
- Administration tools and monitoring services.
- Overall architecture of the environment.

2016-2017 **Node.js (backend)**, RELAYR, Berlin/Germany.

Relayr is an IoT platform to manage and connect various hardware, sensors and virtual devices to the cloud.

Stack: Amazon AWS, Jenkins, Ansible, Consul, Postgres, Cassandra, Kafka, RabbitMQ, Scala and Node.js

As a backend developer my tasks in this company included as mentioned below:

- Design and implementing new REST APIs in clouds micro-service environment
- Implement the MQTT gateway as an interface for IOT devices to connect to the cloud
- Maintaining and scale the existing services

2015-2016 **Node.js - C# Developer(back-end and front-end)**, ZETTABOX, Prague/Czech Republic.  
Zettabox is a cloud storage provider in Europe, application development contains both server side and client side, the company's development structure is based on scrum. main tasks I've been working containing following:

- Introducing monitoring and administration tool to manage the systems core. Using micro-service base technologies on Express.js, rabbitMq.
- Full stack development for admin tools, including unit testing and code coverage. Using Jasmine and Istanbul
- Design and develop RabbitMQ messaging system based on AMQP protocol.
- Implementing SignalR Connection for being able to connect to server with various technologies such as WebSocket.
- Design and implement windows client features including interface(using WPF) ,logic and communication.
- Resolving the existing problems and debugging current code.

2014 **C++ Developer**, APIARY, Prague/Czech Republic.

Development the new future and expanding existing functions in Apiary Blueprint, one of the most reliable and well-known web API documentation tool. the task that has been implemented during the period of my contribution includes:

- C-interface implementation of existing function to export the parser into ruby and python.
- Implementation of late referencing inside the parser.
- Configuring and fixing Snowcrash on windows.
- Resolving the existing problems.

2010-2012 **Developer / Group Supervisor**, ISLAMIC AZAD UNIVERSITY - SOUTH TEHRAN BRANCH, Tehran/Iran.

Development and operating the rescue and quadrotor robots in SURG(StartUp Robotic Group). research and development during this time contained:

- Developing an autopilot for quadrotor using STM32-F103 arm processor's.
- Designing a system to control robotic arm by human interaction captured by Kinect.
- Image feature extraction and matching.
- Developing Remote operator controller for rescue robot over wireless network.
- Designing a Dynamic topological Model Based on ANN.
- research and implementation of new algorithm for simultaneous localization and mapping problem.

2009-2010 **Offshore C++ Programmer**, PHOTOCORE GMBH, Zurich/Switzerland.

- Development and Testing of cylindrical and spherical panoramic high resolution image Viewer by using Qt, Coin3D and OpenInventor3D engine
- Developing hardware security lock with HASP flash lock.

2008-2009 **Algorithm Designer and programmer**, TAHA PARALLEL PROCESSING, Tehran/Iran.

Development of cross-platform algorithm and GUI for Cargo Loading automate container loading process using Qt.

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## Education

2014–2016 **Bachelor of Science (Hons)**, Teesside University, Prague/Czech Republic.  
General Computing, First Class Honours

2009–2014 **Bachelor of Engineering**, Tehran Azad University, Tehran/Iran.  
Specialized in hardware

2009–2005 **High School**, Alameh Tabatabai High School, Tehran/Iran.  
Math-Physics diploma

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## Bachelor Project

- Title *HoS: Simple Cloud Service Management*
- Description A micro-service based, dynamically scalable management environment/web framework designed to have orchestrate individual services and make the services accessible through HTTP, WebSocket and AMQP protocol according to their service definitions. As an output of this project following packages has published though node packet manager: hos-com, hos-api, hos-auth, hos-controller.

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## Awards

- 2014 Bursary award from Prague Collage
- 2008 National Astronomy Olympiad - first round

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## Computer skills

- Advanced NODE.JS,AWS
- Intermediate REACT, RABBITMQ,JAVA, C and C++ (C++9, C++11),C#, POSTGRES
- Basic CASANDRA, ANSIBLE, KAFKA, GO,KUBERNETES

### Other Skills

GIT hub, Linux bash, Swagger, API blueprint, Automation testing, ASP.Net, Qt,CISCO networking management

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## Qualifications

- GRE (General) Verbal 144, Quantitative 156, Writing 3.0
- IELTS Listening 6.0, Reading 6.5, Writing 6.0, Speaking 6.0
- (Academic)
- Machine Learning online course provided by Stanford University (ml-class.org)
- IranOpen 2012 RoboCup Iran Open 2012 competition and symposiums certification of participation

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## Languages

- English **Fluent**
- Persian **Mothertongue**
- French **Basic**

*Basic words and phrases only*

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## Research Interests

Cloud architecture, IoT Automation, complex algorithms; Particularly below topics:

- Reliable and scalable cloud solutions
- High load API infrastructure
- IoT automation
- Remote systems and cloud base services
- Micro-Service architecture using messaging and queue systems
- External logistic automation systems
- Developing neural network to create auto pilot for complex flyers
- Automatic Understanding of physical movements of user to control robots.

## Personal Hobbies

I like hiking in nature - literally off the beaten path - and listen to blues and country music.  
I enjoy photography.