

Mehdi Karamnejad

SOFTWARE ENGINEER · SOLUTION ARCHITECT

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Education

Simon Fraser University

2012 - 2014

M.SC IN INTERACTIVE ARTS & TECHNOLOGY

- Thesis: Virtual Reality and Health Informatics for Chronic Pain Management

Rajae University

2010 - 2012

B.ENG. IN SOFTWARE ENGINEERING

- Thesis: Applying Multiple Classifier Systems to Increase EEG Signal Classification Accuracy

Shamsipour Institute of Technology

2008 - 2010

ASSOCIATE DEGREE IN COMPUTER SOFTWARE

Experience

Rise

Vancouver, Canada

SOFTWARE DEVELOPMENT MANAGER

May 2019 - Present

- Managing teams comprising **10+ engineers** across multiple locations to deliver SaaS HR solutions. Architect cloud-based approaches to integrate different HR-related software into a single solution. Guide and mentor engineers and QA analysts to implement, deploy and quality control the products on **AWS**. Constantly improve and automate processes in the software development life cycle using best practices. Technologies used are **Docker, Rails, Node.js, Angular, and NativeScript**.

BuildDirect

Vancouver, Canada

LEAD SOFTWARE ENGINEER

July 2017 - April 2019

- Led the technical direction of several teams across multiple locations architecting and developing eCommerce apps. The solutions enable buyers, sellers, and contractors to procure and distribute home renovation materials. The public facing web solution has more than 500K+ monthly visitors generating millions of dollars in revenue. The entire infrastructure comprised of **20+ microservices** running in tangent with monolithic legacy web applications. To keep up with the high volume of orders in the supply chain, architected and implemented an **event-driven** microservice infrastructure for delivering heavy merchandise from origin to destination via RESTful APIs. Technologies used were **AWS Lambda, S3, CloudFront, Parameter Store, SNS, SQS, Code Pipeline, Jenkins, Node.js, Webpack, AngularJS, React, and C#**.

Fatigue Science

Vancouver, Canada

SOFTWARE ENGINEER

April 2015 - June 2017

- **Architect** and develop solutions for sleep performance wearable devices using **Ionic, HTML, CSS, Typescript, JavaScript, Rails, and RESTful APIs**. Enhanced core technology integration testing **code coverage** by 20%. Core engineer of a mobile app that enables multiple smart bands to sync sleep data with the cloud in a scalable manner. **Mentoring** multiple junior engineers develop mobile and **cross-platform** applications from the ground up.

Curatio

Vancouver, Canada

SOFTWARE ENGINEER

August 2013 - January 2015

- Developed award-winning iOS app Thalime utilizing **Objective-C, Xcode, and RESTful APIs**. The app has facilitated hundreds of patients with thalassemia give each other social support.

Pain Studies Lab

Vancouver, Canada

RESEARCH ASSISTANT

September 2012 - August 2014

- Developed a **Virtual Reality** environment for chronic pain management using **Unity, C#, GSR Biofeedback, and Oculus Rift**. The environment was deployed in a medical trial in which 30 chronic pain patients reported statistically significant lower pain levels.

IDEANO Pishro Shargh Inc

Tehran, Iran

SOFTWARE ENGINEER

September 2010 - September 2012

- Developed media streaming solutions trusted by more than 100 news agencies in middle east. The system was based on **Busybox** and shipped with a web-based management dashboard developed using **Python, MySQL, HTML, CSS, and jQuery**.

Skills

Programming Typescript, JavaScript, Node.js, Python, C++, Objective-C
Web HTML, CSS, Sass, Bootstrap, Angular, React
Devops AWS, OpenShift, Heroku, Docker
Database MySQL, MongoDB
Mobile Ionic, Cordova(hybrid apps)
Misc GIT, QT framework, Virtual Reality, Biofeedback, Statistical machine learning, GStreamer, Photoshop