

Mohamad Mohebifar

SENIOR SOFTWARE DEVELOPER · CODEMOD, EX-BREX, EX-SHOPIFY

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Work Experience

Codemod Inc.

Sunnyvale, California

CO-FOUNDER & CTO

Sep. 2024 - PRESENT

- Built a developer platform for automated large-scale code migrations using codemods and AI agents.
- Created Codemod Registry, a marketplace enabling discoverability, trust, and reuse of codemods across organizations.
- Designed and implemented Codemod Studio, an online IDE for training and validating reliable codemods on real-world repositories.
- Developed Codemod Insights, a metrics and analytics system surfacing engineering migration progress, bottlenecks, and code quality improvements.
- I led the creation of the Codemod platform to automate and orchestrate large-scale code migrations

Air.inc

Remote

STAFF SOFTWARE ENGINEER

Mar. 2024 - Sep. 2024

- Leading efforts on the stability of the product

Brex

Remote

SENIOR SOFTWARE DEVELOPER

Jun. 2021 - Mar. 2024

- Led the effort to ensure compliance with WCAG 2.1 across our web and mobile products.
- Led the project to update state management in frontend products by implementing an atomic approach.
- Led an initiative to optimize the web product's performance, resulting in a notable 30% reduction in load time.
- Led the transition from hard-coded strings to i18n-ized code by devising an automated, highly effective codemod internally, which ultimately saved close to 2,500 hours of engineering time.

Shopify Inc.

Ottawa, Ontario, Canada

SENIOR SOFTWARE DEVELOPER

May. 2019 - June 2021

- Worked on various projects to help build Shopify's Shipping and Delivery platform including multi-location shipping settings, local delivery settings, local delivery mobile app, checkout, and more.
- Led the Shopify Local Delivery mobile app project.
- Led the local delivery and local pickup component of a major project focused on enhancing Shopify's checkout process.
- Created **React Native Android Auto** in an internal Hackathon
- Technology stack: Ruby on Rails, Typescript, React

OK GROW!

Toronto, Ontario, Canada

SENIOR SOFTWARE DEVELOPER

Jun. 2017 - Apr. 2019

- Implemented mobile applications using React Native, Apollo, and Redux
- Created native RN modules for both iOS and Android to transfer data between the phone app and a wearable device via bluetooth. (iOS EAAccessory)
- Developed back-end using Meteor and Apollo server.

HeyOrca!

St. John's, Newfoundland, Canada

SOFTWARE DEVELOPER

Oct. 2016 - May 2017

- Created and developed a mobile application using React Native, and Redux.
- Worked on the back-end (PHP/Laravel).

Evand.com

Tehran, Iran

LEAD FRONT-END DEVELOPER

Aug. 2015- Aug. 2016

- Rewrote the entire web application using Node.js, React, and Redux.
- Implemented a universal web application rendering on both server and client side.
- Created two applications using React Native.

Arnatech

Tehran, Iran

SOFTWARE DEVELOPER

Sept. 2014

- Developed the back-end for 90tv.ir, the website of Iran's most popular TV show.

Segal Electronic Sahar

Tehran, Iran

WEB DEVELOPER, VOIP EXPERT

Apr. 2012 - Jun. 2014

- Developed a telephone-based commerce platform using Asterisk.
- Developed a web-based e-commerce platform using Angular and PHP (Symfony Framework).

Nikan Group

Tehran, Iran

WEB DEVELOPER

Oct. 2011 - Apr. 2012

Education

Memorial University of Newfoundland

M.Sc. IN CHEMISTRY (COMPUTER SIMULATIONS OF BIOPHYSICS)

St. John's, Newfoundland, Canada

Sept. 2016 – Sept. 2018

- GPA: 95.5/100
- Evaluated the common biomolecular force fields' non-bonded parameters based on results from XDM model of density functional theory.
- Developed a more advanced model for liquid water model using quantum chemical calculations.
- Received a Fellowship from Memorial School of Graduate Studies
- Thesis: <https://research.library.mun.ca/13537/>

Shahid Beheshti University

B.Sc. IN CHEMISTRY AND INFORMATION TECHNOLOGY

Tehran, Iran

Sept. 2011 - Jul. 2015

- GPA: 15.7/20
- Coded a program with Java to solve the unidimensional schrödinger equation as the honors project.
- Independently published a paper in the Journal of Cheminformatics

Honors & Awards

2018	Fellow of School of Graduate Studies , School of Graduate Studies, Memorial University of Newfoundland	St. John's, Canada
2017	Dr. Liqin Chen Scholarship , Department of Chemistry, Memorial University of Newfoundland	St. John's, Canada
2015	Bronze Medal , WorldSkills Competition - Web Design and Development	São Paulo, Brazil
2015	Best of Nation Award , WorldSkills Competition	São Paulo, Brazil
2014	Gold Medal , National Skills Competition - Web Design and Development	Karaj, Iran
2014	Membership , National Elites Foundation	Iran

Peer-Reviewed Publications

An efficient and accurate model for water with an improved non-bonded potential

The Journal of Chemical Physics

FIRST AUTHOR

Oct. 2020

DOI: 10.1063/5.0014469

Evaluating the London Dispersion Coefficients of Protein Force Fields Using the Exchange-Hole Dipole Moment Model

Journal of Physical Chemistry B

SECOND AUTHOR (ADVISED AND ASSISTED UNDERGRADUATE RESEARCHER)

Apr. 2018

DOI: 10.1021/acs.jctc.7b00522

Evaluating Force-Field London Dispersion Coefficients Using the Exchange-Hole Dipole Moment Model

Journal of Chemical Theory and Computation

FIRST AUTHOR

Nov. 2017

DOI: 10.1021/acs.jctc.7b00522

Chemozart: a web-based 3D molecular structure editor and visualizer platform

Journal of Cheminformatics

FIRST AUTHOR

Oct. 2015

DOI: 10.1186/s13321-015-0101-7

Open-Source Projects

Lebab

CREATOR

Mar. 2015

- Lebab is a transpiler that converts old JavaScript codes into human-readable codes.
- <https://github.com/mohebifar/lebab>

React Native Copilot

CREATOR

Oct. 2017

- A library for creating step-by-step walkthroughs for react native apps.
- <https://github.com/mohebifar/react-native-copilot>

React Unforget

CREATOR

Mar. 2024

- A compiler to automatically optimize React applications
- <https://github.com/mohebifar/react-unforget>

Vidact

CREATOR

Apr. 2020

- A compiler that converts React-compatible codes to VanillaJS with no Virtual DOM
- <https://github.com/mohebifar/vidact>

Konsul

CREATOR

Jan. 2017

- A react renderer that renders to browser dev consoles.
- <https://github.com/mohebifar/konsul>

Grafgiti

CREATOR

Mar. 2016

- A terminal program to vandalize github contributions walls
- <https://github.com/mohebifar/grafgiti>

Extracurricular Activity

Skills Canada

TECHNICAL COMMITTEE MEMBER

Newfoundland and Labrador

Oct. 2018 - Apr. 2019

- Helped in organizing provincial web development competitions

Wikipedia

WIKIPEDIAN

Oct. 2008 - PRESENT

- Created ~100 articles on Wikipedia.