

Educational History

2015–2018	Ms.C. Computer Science <i>Stony Brook University, Stony Brook, NY</i>
2010–2015	B.Sc. Computer Engineering <i>ECE Department, University of Tehran, Tehran, Iran</i> Specialized in Software Architecture

Professional History

	1Sell Software Engineer & Back-end lead <i>NestJS on TypeScript, postgresQL</i>
2022-2023	<p>As the back-end lead in an e-commerce platform in Qatar, I helped develop and maintain a tool that encompassed a variety of domains required by a dynamic e-commerce environment including a feature-rich catalog, inventory and shipment management systems; and a variety of integrations to third-party platforms.</p> Hermes Capital Software Architect & Full-stack dev <i>Clojure, Clojurescript (re-frame)</i> <i>postgresQL, mongoDB, Apache Kafka, RabbitMQ</i>
	<p>Hermes Capital provides investment solutions. As the technical team in Hermes, we create tools needed by asset managers to navigate a volatile and complex market.</p>
2019-2022	<p>Our financial tool set is comprised of an algorithm trading platform and a plethora of trading algorithms including, but not limited to, Market-Maker, Arbitrage, etc; An algorithm trading system that is real-time, capable of managing a large amount of highly fluctuating, mission-critical load (of billions of IRRs of assets under management), using event sourcing and stream processing to achieve great performance requirements.</p> <p>To achieve this, we created a mostly-in-memory system with total historical transparency, out-of-the-box scaling capability, relying on practices such as generative testing and Business-Driven-Design to maintain productivity and agility of our development team.</p>
	Blue Bit Soft Back-end <i>Typescript</i>
2019	<p>ApotheekBezorgt is a delivery platform for pharmacies, including a courier app, and a website used by patients to request, track, and receive their medication.</p>
	Tapsi Technical TL for Promotion & Back-end dev <i>Node.js, postgresQL, mongoDB, Redis, RabbitMQ</i>
	<p>Tapsi is a ride-hailing app. With a micro-service back-end system managed by multiple teams.</p>
2018-2019	<p>In Promotion team, we created a variety of tools required by the marketing team for promotional campaigns. Tools such as: loyalty (to identify and incentivize loyal customers), "adventures" (to identify and incentivize heavy users), "driver missions" (to engage drivers and increase supply), and a lot of other tools, designed to cover many marketing scenarios; with an engine for constraint-checks (geographical, time, personal data, etc.)</p>

Selected Projects

2020-2022	Project Van Buren The extensive technical solution for Hermes Trading including an algorithm trading platform, management software, algorithms, distributed connection platform for sending and receiving data to TSE. <i>Using Clojure & Clojurescript</i> <i>Apache Kafka, RabbitMQ, PostgreSQL, mongoDB</i>	<i>Hermes Capital</i>
2020	Hyper-Instance Manager High-performance event-sourcing system using means of concurrency provided by Apache Kafka, designed with ease of scaling and high availability in mind. <i>Using Clojure & Apache Kafka</i>	<i>Hermes Capital</i>
2019	Hermes Component System level dependency validation and higher level component management using component definition and dependency injection of stuartsierra/component <i>Using Clojure & stuartsierra/component</i>	<i>Hermes Capital</i>
2018	New Promotion System New design and implementation for promotion in Tapsi, moving from a monolith architecture to a micro-service. Creating an abstraction system using a micro-service paradigm to create a robust, highly customizable, extensive marketing tool <i>Using Node.js, mongoDB & Redis</i>	<i>Tapsi</i>
Summer 2016	MY-SBUOS Lightweight operating system focused on access control, efficient memory management, and O(1) scheduling <i>Using C & Assembly for x86_64</i>	<i>Course project for CSE 506 Operating Systems</i>
Fall 2014	Web data analyzer Collecting, recognizing and classifying data fields on websites, partitioned by the websites' types. <i>Developed in PYTHON</i>	<i>Social Networks Lab, UT</i>
Summer 2013	RBPT formal verification for wireless network protocols <i>Using ANTLR & JAVA for ML</i>	
Fall 2013	MeetMe Web application to arrange meetings and assign rooms in a campus <i>Using Django, PYTHON, HTML, CSS, JS, PostgreSQL & JS (for load-testing)</i>	<i>Course Project for Software Engineering</i>
Summer 2013	Notification Manager (NODAD) Academic Social Network <i>J2EE web application using wicket & hibernate over RDBMS</i>	<i>UT Summer of Code</i>
Spring 2013	BookMaina Web portal to buy and sell used books <i>Using Django, PYTHON, mySQL, HTML, CSS, JS</i>	<i>Course Project for System Analysis and Design</i>

Areas of Interest

Software Design & Architecture
Network & Destributed Systems
Programming Languages
Algorithms & Game Theory

Skills

Programming & Software Languages	Clojure, Clojurescript , PYTHON JAVA, JavaScript, TypeScript, HTML, CSS, SQL, Befunge :) C/C++, PHP, Bash, Lisp, Clips, ML, MatLab, Octave, Haskell, Scala, C#, R, Ruby, Prolog, TEX, L ^A T _E X	Expert Experienced Familiar
Tools, Platforms, & Methodologies	Apache Kafka, RabbitMQ, postgresSQL, mongoDB, Node.js Django, NestJS, pedestal, re-frame, MySQL, Nginx, git, ANTLR, Linux, Distributed systems testing (jepsen) Generative testing (test.check)	
Language	Farsi English French, Arabic, Gilaki	Native Fluent Elementary