

Yalda Yarandi

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EXPERIENCES

Iran Tourism Information Technology Development

Tehran

PART-TIME SOFTWARE DEVELOPER (FRONT-END DEVELOPER)

Sep. 2021 – Mar. 2023

Designed and developed user interfaces for a **Digital banking** project using React.js and Angular.

Implemented Redux for state management and optimized the application's performance using lazy loading and code splitting. Collaborated with the design team to ensure a consistent user experience and adherence to design guidelines.

Technologies: Js/Ts, React, Angular, Material-UI/Ant Design, Tailwind CSS, Redux/Redux Toolkit

Iran Tourism Information Technology Development

Tehran

PART-TIME SOFTWARE DEVELOPER (BACK-END DEVELOPER)

Apr. 2020 – Sep. 2021

Designed and developed RESTful APIs for a web-based platform using Java and Spring. Implemented JWT authentication and websocket communication to improve security and user experience. Worked closely with the frontend team to integrate APIs and ensure smooth data exchange between the frontend and backend.

Technologies: Java 11, Spring Boot, GRPC, Protocol Buffers, REST APIs, Git, Maven, Message Brokers, Lombok, Scrum, Mockito, Redis, Oracle Database and PostgreSQL

Rahnema College

Tehran

SOFTWARE ENGINEERING INTERNSHIP

July 2019 – Sep. 2019

Affiliated with Rahnema co.

During the three-month Software Engineer Internship, I worked alongside Senior Software Developers to build a mobile auction application from scratch. The first month was dedicated to learning essential design software skills, after which we began development using a stack that included React Native, Java Spring Boot, RESTful APIs, Websockets, MongoDB, MySQL, and Nginx. In addition to technical training, the internship also included workshops on teamwork, project management, and workplace ethics. Overall, this experience gave me a comprehensive understanding of the development process and allowed me to contribute to a real-world project.

Technologies: Java 8, Spring Boot, RESTful APIs, Websocket, JWT Authentication, JavaScript/TypeScript, React Native, Nginx, Mysql and MongoDB

Bisphone Co.

Tehran

BACK-END INTERNSHIP

Sep. 2018 – Nov. 2018

As a back-end developer intern, I gained a foundational understanding of web services and software implementation using Scala. I learned about web protocols, microservices, protocol buffers, and Git.

SKILLS

Technical : OOP/Design Patterns, Java Core/JEE, Restful Backends, Microservices, Spring MVC/Spring Boot, JPA/Hibernate/RDBMS, Git/Maven/Gradle, Message Brokers, Unit Testing, Slurm Script, Messaging systems: (Pub/Sub, MQTT, WebSocket), Linux(Ubuntu), Relational and unrelational Database
Python, PyTorch

React.js/Angular, Ant Design/Material Design, JavaScript/TypeScript

Theoretical : Experienced in Design of Algorithm, Data Structures, Machine Learning and Deep Learning Algorithms, Natural Language Processing

Languages : Persian: Native, English: **IELTS 7** (Listening:7.5, Reading:7, Speaking:7, Writing:6), German: A1

EDUCATION

University of Tehran (UT)

M.Sc IN INFORMATION TECHNOLOGY

Member of Natural Language and Text Processing Laboratory, Computer Engineering Department

Rewarded as a Talent and elit student

Tehran, Iran

Sept. 2021 – Present

Shahid Beheshti University (SBU)

B.SC. IN COMPUTER ENGINEERING

Ranked in the top 10%

GPA : 18.13/20 – 3.84/4

Tehran, Iran

Sept. 2017 – July. 2021

Farzanegan2 High School

DIPLOMA IN MATHEMATICS AND PHYSICS DISCIPLINE

Affiliated with the National Organization for the Development of Exceptional Talents (NODET)

GPA : 19.91/20

Tehran, Iran

Sept. 2013 – May 2017

HONORS AND AWARDS

Granted admission from Talented Student Office of Tehran University for graduate study.

2021

8th Rank JavaCup Professional Developer

2020

20th Rank JavaCup Professional Developer

2018

4th Rank RoboCup IranOpen 2015 Competitions, Junior Demo Open Challenge

2015

PROJECTS

PARSEME collaboration

2022

- Under the supervision of Professor Savary from LISN Laboratoire at Paris-Saclay University, and Professor Ramisch from LIS-TALEP Laboratoire at Aix-Marseille University, I collaborated on the development of the Farsi PARSEME corpus, contributing to linguistic research and analysis.

Forecasting Price Trends: Leveraging Telegram Analysis and Pharmaceutical Industry Data

2022

- My model utilizes Telegram post analysis and economic data from the pharmaceutical industry to predict future price trends accurately. This innovative approach enables proactive decision-making and empowers businesses and investors in navigating the dynamic pharmaceutical market.

Identification Persian Verbal MultiWord Expressions (MWE)

2021

- I implemented deep learning models, including Keras, Transformer, and BERT, to accurately detect verbal Multi-Word Expressions (MWEs) in Persian documents. This work advances Persian language processing and enables more precise natural language understanding applications.

Unraveling Influential Factors: Predicting Iranian Immigration Tendencies [GitHub](#)

2021

- Using scikit-learn and Pandas, I analyzed data collected by SBU psychological students to identify factors influencing Iranian immigration tendencies. This research offers valuable insights for understanding and predicting immigration patterns.

Centralized Smart Key Control System: Integrating Arduino Uno and C++ [GitHub](#)

2020

- My system integrates Arduino Uno, Matlab/Simulink, and C++ to centrally control smart keys in a house, ensuring convenient and secure access management.

Pong [GitHub](#)

2020

- Implemented a single player Pong game using 86 Assembly.

Java-Like Language Compiler [GitHub](#)

2019

- I developed a Java-like programming language compiler using Java, ASM, and JFlex, which converts the source code into bytecode. This compiler enables efficient execution of the code, bridging the gap between high-level programming and low-level bytecode operations.

Auction Application: Server-Side Implementation with Java/Spring Boot

2019

- I successfully implemented the server-side of an auction application, leveraging Java/Spring Boot, JWT, Maven, MySQL, Nginx, and Websocket technologies. By utilizing REST APIs and Websocket, my implementation enables seamless communication and real-time bidding experiences. The incorporation of JWT ensures secure authentication and authorization. With the support of MySQL for efficient data storage and Nginx for robust web server capabilities, my server-side implementation provides a reliable and scalable foundation for the auction application.

Minimal Chat Platform: Socket-based Desktop Application with Java IO [*GitHub*](#)

2018

- I implemented a Java-based desktop chat platform using socket programming, Java IO, JavaFX, and CSS, enabling real-time communication with a minimalist design.

TEACHING ASSISTANT

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|---|------------------------|
| <i>Compiler Design</i> , Sharif University of Technology, Professor Ghassem Jaberipur | Jan. 2021 – May. 2021 |
| <i>Artificial Intelligence</i> , Shahid Beheshti University, Professor Mehrnoush Shamsfard | Sept. 2019 – Jan. 2020 |
| <i>Advanced Programming</i> , Shahid Beheshti University, Professor Sadegh Aliakbary | Jan. 2019 – May. 2019 |
| <i>Introduction to Programming</i> , Shahid Beheshti University, Professor Sadegh Aliakbary | Sept. 2018 – Jan. 2019 |