

Danial Riazati

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EDUCATION

Shahid Beheshti University - Tehran, Iran

Sep 2019 - Feb 2024

Bachelor of Science in Computer Engineering (GPA: 3.47/4.0)

National Organization for Development of Exceptional Talents (SAMPAD) - Alborz, Iran

Sep 2013 - Jun 2019

High School Diploma - mathematics (GPA: 3.97/4.0)

SKILLS

Programming, Query, Markup Languages: C#, Python, Dart, GO, C/C++, Java, JavaScript, SQL, HTML5, CSS/ SCSS

Web Frameworks (Backend): .NET Core (Web API - MVC), .NET Framework, Node.js, GO REST API Frameworks (Gin, Gorilla Mux, Fiber), Flask

Web Frameworks (Frontend): React.js, Flutter, Bootstrap, jQuery, Android SDK, Flutter Pi

Databases and Caches: Microsoft SQL Server, Oracle, MySQL, SQLITE, MongoDB, Redis

Hardware and Boards: Raspberry Pi Family (Raspberry Pi 4 Model B - Raspberry Pi Zero W), Arduino Uno

Environment and Tools: Raspberry OS, Linux Debian-Based distros (Ubuntu, Kali Linux), Shell, Nginx, Visual Studio, VSCode, Message Brokers (Kafka - RabbitMQ), API Gateway (Ocelot), Graylog, Elasticsearch

Project Management and Iaas: Scrum, Git, Docker, AWS, Microsoft Azure, GitLab CI/CD

Computer Science: Data Structures and Algorithms, Computer Networking, Operating Systems, SOLID principles, Design Patterns, Micro-Services, Asynchronous programming,

EXPERIENCE

Software Engineer - Hasin Technology Co., Tehran, Iran

Mar 2021 - Feb 2024

- Backend Developer, Payment Solutions Department**

Initially joined as a Backend Developer focusing on payment switch and channel management systems. Spearheaded algorithmic and security enhancements to handle over 2 million transactions daily, ensuring system integrity, speed, and maintainability. Excelled in implementing robust monitoring and logging systems for efficient issue resolution.

- Team Lead & Full Stack Developer, Startup Studio Department**

Transitioned to lead and contribute as a Full Stack Developer within the innovative Startup Studio. Directed brainstorming sessions and spearheaded the development of three startup projects, including the high-tech Piki Smart Cart. Pioneered the integration of advanced sensors and computer vision to enhance the shopping experience, eliminating queues. Led the design of a sophisticated fraud detection system and versatile payment solutions, employing best practices in code quality and system design.

Key Contributions:

- Engineered a core system for sensor data recognition and processing, significantly enhancing UI responsiveness and fraud detection capabilities.
- Implemented various design patterns and system design methodologies, improving code maintainability and project scalability.
- Fostered a culture of innovation, leading to the successful launch of Piki Smart Cart and enhancing the company's technological footprint.

Internship Mentor - Radin Technology Co., Tehran, Iran

Jun 2021 - Dec 2023

Mentored 37 undergraduates in CS/CE at Radin Technology Co., teaching software engineering fundamentals, including algorithms, OOP, design patterns, and tool proficiency (Git, Microsoft Azure). Developed web development courses on .NET Core, RESTful APIs, React JS, and basics of UI/UX design with Figma. Guided interns to specialize in backend or frontend development, culminating in real-world projects for their portfolios.

Teaching Assistant - Shahid Beheshti University, Tehran, Iran

Sep 2020 - Feb 2024

- Appointed as Head Teaching Assistant for Advanced Programming under **Dr. Mojtaba Vahidi-Asl** crafting exercises focused on OOP and Design Patterns, and facilitating the adoption of efficient programming practices.
- Served as a Teaching Assistant for Internet Engineering with **Dr. Ehsan Javanmardi**, where I taught web fundamentals, ReactJS, NodeJS, and NoSQL database usage. Coordinated the development of a timely project monitoring COVID-19 statistics.
- Assisted in the Algorithms course led by **Dr. Ramak Ghavamizadeh**, mentoring students in solving complex problems with an emphasis on optimal time and memory complexity, employing greedy algorithms and dynamic programming in C/C++.

Research Assistant - Shahid Beheshti University, Tehran, Iran

Mar 2021 - Sep 2023

- Engaged in innovative research under **Dr. Mohsen Ebrahimi Moghaddam**, Head of the Computer Engineering Faculty, to enable iOS functionality on alternative hardware platforms, decrypting proprietary protocols and algorithms.
- Designed an efficient data schema and developed web API services for a BPMS project, demonstrating practical application of research in software development.

PROJECTS

Thesis Project - Class Negar (Revolutionizing Classroom Management and Attendance through Smart Technology)

Sep 2023 - Feb 2024

- "Best thesis project candidate" in Shahid Beheshti University Faculty of Computer Science and Engineering**
- Key Words:** #Raspberry_Pi #Raspberry_OS #IoT #DotNet #REST_API #RFID #QRCODE #PWA #UI/UX
- Description:** As a culmination of my Bachelor of Computer Engineering at Shahid Beheshti University, I spearheaded the development of "Class Negar", a pioneering smart classroom system designed to streamline class management and enhance the educational experience for both faculty and students.
- Impact and Usability:** The design and implementation of Class Negar were driven by a commitment to usability and security. The system's interface was crafted with keen attention to UI/UX principles, ensuring an accessible and user-friendly experience for all stakeholders. By offering a reliable and efficient method for managing class attendance and resources, Class Negar has not only enhanced the educational process within the faculty but also set a benchmark for future innovations in smart classroom systems.

Piki Smart Cart (Transforming Retail with State-of-the-Art Smart Technology)

- Key Words:** #Computer_Vision #IoT #Micro_Services #Raspberry_Pi #Sensor_Fusion #Linux #REST_API #Payment
- Description:** The Piki Smart Cart embodies the forefront of retail innovation, a project that I had the pleasure of leading and developing from the ground up. As the Team Lead and Full Stack Developer at Startup Studio, I championed the transformation of conventional shopping carts into intelligent companions for shoppers.

CERTIFICATES

- Scrum Alliance Certified Scrum Professional - Scrum Alliance - Credential ID 001605847**
- JAVACUP CERTIFIED JAVA PROGRAMMER - Java Cup Association**

Dec 2023

Oct 2020