|  | | |  | Mahdi Amini |
| --- | --- | --- | --- | --- |
| Professional Skills **Microservices:** Architecture design, Tools, Patterns, Best practices, …  **Java:** Spring ecosystem, Project Reactor, JavaFX, Maven, Gradle, …  **Reactive systems:** Stream processing(Kafka streams), Event sourcing  **Protocols and standards:** RSocket, WebSocket, MQTT, AMQP, STOMP, Oauth, WebRTC, WebAuthN, OpenID, SSE  **Software Testing:** TDD, JUnit5, Mockito, Test Containers  **Frontend:** Flutter, Android, React.js,  **Infrastructure and tools:** Docker, Kubernetes, Nomad, RabbitMQ, Neo4J, Elasticsearch, MongoDB, PostgreSQL, Prometheus, Grafana  **Cloud provider:** GCP, AWS  **CI/CD**: Github actions, Jenkins  **Language:** Persian (Native), English (IELTS **7**/9), Python, Dart, Erlang, Groovy, Typescript  **Game development:** Flame, Forge2D/Box2D, JMonkeyengine  **Sport:** Volleyball  **Driving:** AM/B Swedish Driving license Experiences **Software Engineer at** [**Nordnet**](https://www.nordnet.se/)Apr 2021 - present  I worked in a cross functional team, responsible for login and authentication, in which remote mob programming allowed the team to deliver a range of reliable login solutions at a high pace. My major contributions in Nordnet:   * Architecture of the authentication step within AML * Reworking architecture of authentication solutions upon migration to cloud * Advocate of incremental development, decoupling, reactive systems, product based thinking, and datamesh * Full stack development of a RSA challenge based [authentication method](https://assets.ctfassets.net/f5rlrsannule/1x76yZy3wD9yr1w0XpNDQt/db40d2d07feae8a54c9d12eb2975ffac/Nordnet_login_whitepaper.pdf) * Resolving (deemed impossible) decade old technical debts and security issues * Depreciation of on prem microservices while implementing alternatives on cloud (GCP) (cloud migration) * Holding [educational workshops](https://www.youtube.com/channel/UCrxRrOLow4lR3eMFHrHF1wA/featured) and presentations * Delivering a WebAuthN based (passwordless) authentication method   **Backend developer at** [**Cabonline**](https://www.cabonline.com/)Oct 2018 - Mar 2021  As a backend developer, I was responsible for turning (non-)functional requirements into implementation of microservices while considering scalability, extensibility and availability. Pair programming and extensive testing were part of my daily routine. I always had an eye on what can be automated, upgraded and improved. My major contributions in Cabonline:   * Development of an event sourcing based vehicle dispatching service (using Kafka Streams) * Development of a token based authentication solution for travelers inspired by Oauth2 standard * Refactoring servlet based applications to reactive stack * Advocate of Event-Driven solutions  Educations **MSc. of Computer Science** Sep 2018 - 2019 and Jan 2021 - Apr 202  **Uppsala University, Sweden**  Thesis: [Stateful-Geofencing-Faas](https://github.com/bmd007/statefull-geofencing-faas)  A stream processing and microservices based system that allows high scale low latency geofencing. This platform is an implementation of the stateful-function-as-service idea.  Supervisor: [Prof. Salman Toor](https://katalog.uu.se/profile/?id=N7-398)  **BSe. of Information Technology** Sep 2013 - Jul 2018  **Isfahan University of Technology, Iran**  Thesis: Smart grid consumption optimization without compromising consumers’ privacy. Novelty of this project was to use a homomorphic cryptosystem to preserve privacy.  Supervisor: [Prof. Mohammad Hossein Manshaei](http://www.manshaei.org/)  **Teaching Assistant:**  Topics I taught: Spring, Hibernate, JSF, REST API design |
|  | Innovative, outside the box thinker, who is undaunted by failure. (PI test result) | |
|  | gps icon | #1101  Kungsängsgatan 36 A Uppsala Sweden  75322 |
|  |  | |
|  | phone icon | (+46)073-774-8187 |
|  |  | |
|  | email icon | [mm7amini@gmail.com](mailto:mm7amini@gmail.com) |
|  |  | |
|  | website icon | [Medium](https://medium.com/@bmd007)  [Github](https://github.com/bmd007/)  [Stackoverflow](https://stackoverflow.com/users/3118741/mahdi-amini) |
|  | Side Projects  [Reactiveland](https://github.com/bmd007/reactiveland)  A repository for learning reactive programming.   * Educative text * Challenges * Recorded Workshops (youtube)   [Scalable geospatial matchmaking](https://github.com/bmd007/Wonderland)system based on reactive systems and stream processing.  [Swedish BankID gateway](https://github.com/bmd007/swedish-bankid-gateway)  An integration to the latest version of Swedish BankID APIs, and exposing them as one SSE end point. | |  |