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Experience

Vocational

2019–Current **Clojure Developer**, *Mediquest*, Utrecht, The Netherlands.

System application design and coding for improved healthcare outcomes.

- Setup CI/CD pipelines using GitOps philosophy and introduced culture of code reviews with automated tests and deployments.
- Led various design and coding activities, such as integrating an early warning system using Sentry, setting up a private Kubernetes cluster on GCP, setting up an OpenID Connect single sign-on to secure various user and machine facing applications on GCP using Keycloak and Keycloak Gatekeeper (implementing the OAuth 2.0 Authorization Code Grant and Client Credentials Grant), building an API for gepastverwijzen.nl, and a portal consisting of configurable questionnaires, invites, dashboards, uploads and downloads used by millions of patients and thousands of healthcare organizations. In close collaboration with project managers and designers. Adhering to ISO-27001, an international standard for information security management systems, the ISO 9001, a global standard for quality management, and NEN7510, a Dutch standard for information security in healthcare.
- Contributed to hiring and onboarding three new developers.

Clojure | ClojureScript | ClojureCLR | GraphQL | PostgreSQL | GCP | Kubernetes | C# | .NET

2020–2021 **Clojure Developer**, *SDIM*, Haarlem, The Netherlands.

Insights into political and social issue ads (worked as contractor).

- Created configurable periodic workload integrated in Google Data Studio.

Clojure | GitHub Actions | BigQuery | GCP

2018–2020 **Clojure Developer**, *TOOL2MATCH*, Tilburg, The Netherlands.

Entire development life cycle of a recruitment application with a friendly and accessible UI and privacy in mind (worked as contractor).

- Accomplished various technical tasks, including penetration test, implementing two-factor authentication (2FA), and building new UI flows and frontends for creating meetings and generating salary reports.

Clojure | ClojureScript | Reagent | re-frame | MySQL | DigitalOcean

2020 **Author**, *Packt*, Birmingham, United Kingdom.

Screencasts for The Clojure Workshop: A New, Interactive Approach to Learning Clojure (worked as contractor).

- Screencasts for the Clojure Workshop: A New Interactive Approach to Learning Clojure.

ScreenCast-O-Matic | FIFINE Microphone | Spacemacs | Clojure | ClojureScript

2018–2019 **Software Engineer**, *Alliander IT R&D*, Utrecht, The Netherlands.

- Pitched and developed a proof-of-concept for GDPR-compliant sharing of smart meter measurements on top of the IOTA Tangle distributed ledger.
- Led technical activities and initiatives in R&D environment. Like building an interface for a virtual reality electrician training platform, an application for image recognition of smart meters and compared genetic programming with extreme gradient boosting for energy consumption forecasting.
- Posted blogs on different platforms with content regarding quantum computing and new technologies.

JavaScript | Node.js | Clojure | ClojureScript | Python | PostgreSQL | Kubernetes | AWS | IOTA | Mapbox

2016–2018 **Clojure Developer**, *MPARE (Alliander)*, Arnhem, The Netherlands.

- HelloData and Data Authorisation Gateway projects
 - Developed data platforms with high scalability in mind for consumers, application developers, and for service providers within the energy market. Proof-of-concept was successfully run with 50 households.
- Pitched and built proof-of-concept for storing claims of devices and authorizations for access to energy measurements on the Ethereum blockchain.

Clojure | ClojureScript | Raspberri Pi | IoT | Event sourcing | Node.js | Java | Redis | MQTT | MySQL | Kubernetes | AWS | GitLab CI | Ethereum | Solidity

2015–2016 **Dev Engineer**, *ING Group*, Amsterdam, The Netherlands.

- Rebuilt critical service with high scalability and resilience requirements.
- Contributed to the mobile onboarding project using various programming languages, such as Scala and Java
- Created domain-specific language for generating APIs using the Petri net modeling language for distributed systems. Used in backend of ING's Mobile Onboarding project. (Project is still maintained, see <https://github.com/ing-bank/baker>)

Scala | Akka | Java | Docker | Maven | sbt | Kafka | Cassandra

2014–2015 **IT Specialist**, *ING Group*, Amsterdam, The Netherlands.

- Created monitoring dashboard.
- Developed features for full-stack .NET application used by thousands of employees for operations on bank accounts.
- Implemented tests using Specification by Example (Behaviour-Driven Development).
- Introduced PowerShell Desired State Configuration in build pipeline.

C# | .NET | JavaScript | SQL Server | TIBCO | CodedUI | TFS | PowerShell (DSC)

2013–2014 **Software Engineer**, *Sogyo*, De Bilt, The Netherlands.

- Collaboratively built new lunch ordering application for employees used till this day.

C# | .NET | JavaScript | TFS

Miscellaneous

2012–Current **Yogi, UK, Thailand, Nepal.**

Spent over eight months in silent vipassana meditation retreats to develop self-control.

2017–2022 **Organiser and Tutor, ClojureBridge, Amsterdam, The Netherlands.**

Help with and create beginner hands-on programming workshops with the aim to increase diversity within IT.

2018 **Software Engineer, D-VAULT, Amsterdam, The Netherlands.**

Prototyped a privacy-adhering (GDPR proof) blockchain solution for load balancing in the energy sector. It shared high resolution energy data using distributed ledger technology so that the aggregator could only see the sum of usage over an area and not individual measurements, and individuals could not see each others measurements. We used the IOTA tangle, decentralised aggregation methods such as push sum protocol and synchronisation of data exchange on a network of Raspberry Pis. Visualized results with dashboards. The project won third price in energy track of Blockchaingers Hackathon 2018.

Education

2011–2013 **MSc Transpersonal Psychology and Consciousness Studies, School of Social Sciences, University of Northampton, Northamptonshire, United Kingdom.**

Transpersonal psychology attempts to translate spiritual principles into contemporary grounded, scientific language.

2007-2011 **BSc Bèta-gamma / Physics and Astronomy (Minor: Philosophy), Institute for Interdisciplinary Studies, University of Amsterdam, Amsterdam, The Netherlands.**

Bèta-gamma combines elements of exact sciences, life sciences, social sciences, economy and philosophy. The core idea is that complex problems can only be solved from multiple fields of study.

2000–2007 **VWO Natural Sciences & Technology, Fioretti College, Lisse, The Netherlands.**

Languages

Native Dutch

Fluent English

Intermediate Hindi

Basic Pali, German and French

Computer skills

Ops Amazon Web Services, Microsoft Azure, Google Cloud Platform, Kubernetes, Docker, Jenkins, Ansible, GitLab CI, Bitbucket Pipelines, GitHub Actions, Bash, PowerShell, PowerShell Desired State Configuration, GitOps, Sentry, Keycloak

Backend Clojure, ClojureScript, C#, Scala, Akka, ASP.NET MVC, ASP.NET WebForms, JavaScript, Node.js, Java, Spring, Python, Ruby, Ruby on Rails, PHP, Solidity, Bash, PowerShell

Frontend ClojureScript, shadow-cljs, Figwheel, Reagent, re-frame, JavaScript, TypeScript, CSS, Bootstrap, Bulma, Tailwind, HTML, REST, GraphQL, React, Redux

Creative PlantUML, Inkscape, GIMP, Spacemacs, org-mode, Screencast-O-Matic, GPT-4, Runway

AI OpenAI GPT, Google Vertex, LangChain4j

Database PostgreSQL, MySQL, SQL Server, Entity Framework, SQLite, Kafka, Cassandra, Cloud SQL, Google Pub/Sub, Google Big-Query, MongoDB, Redis, MQTT, Elastic-Search, Datomic, Yesql, HugSQL

Mobile React Native, re-natal, Windows Phone

Testing Simulant (simulation testing), Gatling (performance testing), Kali Linux (penetration testing), CodedUI (UI testing), clojure/test.check (property-based testing)

Process Agile, Scrum, Spotify Model, Holacracy