

Erwin Rooijackers

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Experience

Vocational

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

Offered hands-on role in system application design and coding that focused on improving healthcare outcomes.

- Led feature development, writing clean, efficient, flexible, and maintainable code that adheres to design principles.
- Conducted code reviews and pair programmed with other developers.
- Setup CI/CD pipeline and culture.
- Drove work analysis and R&D prototyping.
- Performed various technical activities, such as integrating an early warning system, supporting the setting up of a private Kubernetes cluster, creating proof-of-concepts for questionnaire application using SurveyJS and a login portal using Keycloak and Keycloak Gatekeeper, extending dashboard configuration, creating an upload API and replacing the email server.
- Performed ongoing quality control, recognising potential errors and issues, recommending solutions for areas requiring changes or further development.
- Worked to strict schedules, utilising various approaches to identify and fix any problems in a time-efficient manner.
- Continuously discovered best practices, tools, and methodologies, transparently communicated road-blocks and progress.
- Proactively contributed to new team member development.

Clojure | ClojureScript | ClojureCLR | GraphQL | PostgreSQL | GCP | Kubernetes | Ethereum

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

Provided insights into political and social issue ads as contractor.

- Created configurable periodic workload and communicated successfully how to integrate it in Google Data Studio.

Clojure | GitHub Actions | BigQuery | GCP

2018–2020 **Clojure Developer**, *TOOL2MATCH*, Tilburg, The Netherlands.
Worked as a contractor in the entire development life cycle of a recruitment application with a friendly and accessible UI and privacy in mind.

- Accomplished various technical tasks, including performing a penetration test, implementing two-factor authentication (2FA), and building a PDF salary information report generator based on salary information from an external API.

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*.

- Produced screencasts for the *Clojure Workshop: A New Interactive Approach to Learning Clojure*.
- Provided customer service by rapidly responding to customer inquiries.

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 relativity electrician training platform, an application for image recognition of smart meters and a tool that compared genetic programming with extreme gradient boosting for energy consumption forecasting.
- Posted blogs on different platforms with content regarding quantum computing and technologies.

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

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

- HelloData and Data Authorisation Gateway project
Developed data platform with low latency, high scalability in mind for consumers, application developers, and for service providers within the energy market.
- 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 | 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.

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 for operations on bank accounts.
 - Implemented tests using Specification by Example (Behaviour-Driven Development).
 - Improved build pipeline using PowerShell Desired State Configuration.

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 that is still in use.

C# | .NET | JavaScript | TFS

Miscellaneous

- 2017–Current **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. 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.

Research MSc: Madness or Mysticism? A Quantitative Exploration of the Differentiation Between Psychosis and Spiritual Experience

- 2007-2011 **BSc** Liberal Arts & Sciences (Bèta-gamma) (Major: 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 basic principle of the program is that complex problems can not be solved from a single discipline.

Research BSc: Searching for Interstellar Gas Powered by the Jets of the X-Ray Binary V404 Cyg

Anton Pannekoek Institute for Astronomy

Research BSc: From Empiricism to Ontology: Exact Sciences and the Role of Interpretation in Quantum Mechanics

Institute for Interdisciplinary Studies

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

Languages

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| Native | Dutch |
| Fluent | English |
| Intermediate | Hindi |
| Basic | Pali, German and French |

Computer skills

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| 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 | Database | PostgreSQL, MySQL, SQL Server, Entity Framework, SQLite, Kafka, Cassandra, Cloud SQL, Google Pub/Sub, Google BigQuery, MongoDB, Redis, Elasticsearch, Datomic, Yesql, HugSQL |
| 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 | Mobile | React Native, re-natal, Windows Phone |
| Frontend | ClojureScript, shadow-cljs, Figwheel, Reagent, re-frame, JavaScript, TypeScript, CSS, Bootstrap, Bulma, Tailwind CSS, HTML, REST, GraphQL, React, Redux | Testing | Simulant (simulation testing), Gatling (performance testing), Kali Linux (penetration testing), CodedUI (UI testing), clojure/test.check (property-based testing) |
| Creative | PlantUML, Inkscape, GIMP, Spacemacs, Screencast-O-Matic | Process | Agile, Scrum, Spotify Model, Holacracy |