

# Erwin Rooijackers

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## Experience

### Vocational

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

System application design and coding for improved healthcare outcomes.

- Led feature development, writing clean, efficient, flexible, and maintainable code.
- 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, setting up a private Kubernetes cluster, creating proof-of-concepts for questionnaire application using SurveyJS and a login portal using Keycloak and Keycloak Gatekeeper, configurable dashboards and APIs.
- Performed quality control, recognising potential errors and issues, recommending further development.
- Worked to deadlines, utilizing various approaches to identify and fix problems time-efficiently.
- Transparently communicated roadblocks and progress.
- Contributed to new team member development.

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

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 a PDF salary information report generator.

*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.
- Rapidly responded 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 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 project  
Developed data platform with 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 | 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.

*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.

*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.

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## 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** 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 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.

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## 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	Database	PostgreSQL, MySQL, SQL Server, Entity Framework, SQLite, Kafka, Cassandra, Cloud SQL, Google Pub/Sub, Google BigQuery, MongoDB, Redis, MQTT, 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, 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