

Erwin Rooijackers

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Experience

Vocational

- 2018–Current **Clojure Developer**, *TOOL2MATCH*, Tilburg, The Netherlands.
Development for full stack Clojure(Script) application used for recruitment with privacy in mind.
Clojure | ClojureScript | Reagent | re-frame | MySQL | DigitalOcean
- 2018–Current **Software Engineer**, *Alliander IT R&D*, Utrecht, The Netherlands.
Compare genetic programming with extreme gradient boosting for energy consumption forecasting.
Built interface for Alliander's Virtual Reality electricians training platform.
Built web app for image recognition of smart meters.
Wrote blog posts on subjects as quantum computing and technologies to watch.
Developed proof-of-concept for GDPR-compliant sharing of smart meter measurements on top of the IOTA Tangle distributed ledger.
JavaScript | Node.js | ClojureScript | Python | PostgreSQL | Kubernetes | AWS | IOTA
- 2016–2018 **Clojure Developer**, *MPARE (Alliander)*, Arnhem, The Netherlands.
Built proof-of-concept for storing authorizations for access to energy measurements in a smart contract on the Ethereum blockchain.
HelloData and Data Authorisation Gateway projects. Developed data platform with low latency, high scalability in mind for consumers, application developers, and for service providers within the energy market.
Clojure(Script) | Node.js | Java | Redis | MySQL | Kubernetes | AWS | GitLab CI | Ethereum
- 2015–2016 **Dev Engineer**, *ING Group*, Amsterdam, The Netherlands.
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.
Rebuilt critical service with high scalability and resilience requirements.
Scala | Akka | Java | Docker | Maven | sbt | Kafka | Cassandra
- 2014–2015 **IT Specialist**, *ING Group*, Amsterdam, The Netherlands.
Improved build pipeline using PowerShell Desired State Configuration.
Implemented tests using Specification by Example (Behaviour-Driven Development).
Created features for full-stack .NET application used for operations on bank accounts.
Created monitoring dashboard.
C# | .NET | JavaScript | SQL Server | TIBCO | CodedUI | TFS | PowerShell (DSC)
- 2013–2014 **Software Engineer**, *Sogyo*, De Bilt, The Netherlands.
Built lunch ordering application for employees.
C# | .NET | JavaScript | TFS

Miscellaneous

- 2017–Current **Organiser and Tutor**, *ClosureBridge*, Amsterdam, The Netherlands.
Help with beginner 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.

Courses: Research Methods & Statistics, Quantitative Research, Neuroscience & Consciousness, Ongoing Spiritual Practice, History of Transpersonal Psychology, Psychotherapy & Counselling, Approaches to Mysticism East & West

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.

Physics courses: Electrodynamics, Quantum Mechanics, Special Relativity, Statistical Physics, Classical Mechanics

Philosophy courses: Philosophy of Science, Philosophy of Culture, Epistemology, British Cultural Studies

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.

Courses: Physics, Mathematics, Chemistry, Economics

Languages

Native Dutch
Academic English
Basic French and German

Computer skills

Ops	Amazon Web Services, Microsoft Azure, Kubernetes, Docker, Jenkins, Ansible, Git-Lab CI, Bash, PowerShell, PowerShell Desired State Configuration	Database	PostgreSQL, MySQL, SQL Server, SQLite, Kafka, Cassandra, MongoDB, Redis, ElasticSearch, Datomic
Backend	Clojure, ClojureScript, C#, Scala, Akka, ASP.NET MVC, ASP.NET WebForms, Java, Spring, Python, Ruby, Ruby on Rails, PHP, Solidity, Bash, PowerShell	Mobile	React Native, re-natal, Windows Phone
Frontend	ClojureScript, Figwheel, Reagent, re-frame, Yesql, JavaScript, TypeScript, CSS, HTML, REST, React, Redux	Testing	Simulant (simulation testing), Gatling (performance testing), CodedUI (UI testing), clojure/test.check (property based testing)
Creative	Inkscape, GIMP	Methods	Agile, Scrum, Spotify Model