Adriaan Knapen

Software Engineer and Cloud Specialist

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Profile

A highly skilled and motivated Software Engineer and DevOps Consultant with a strong background in cloud computing, full-stack development, and containerization. Experienced in developing and implementing efficient CI/CD pipelines, automating deployments, and promoting DevOps best practices. A strong proponent of automation, GitOps, cloud-native, and LEAN software development. Passionate about contributing to open source projects and engaging with the tech community through public speaking and hackathons.

Areas of Expertise

Cloud Computing - Full-Stack Development - DevOps - CI/CD - Security - Containers - Kubernetes - Azure - Digital Twin Technology - Chaos Engineering - Distributed Systems - Public Speaking - Open Source Contribution

Professional Experience

Senior DevOps Consultant, *Eficode*   **Helsinki, Finland** *06/2019 - present*

- Public speaking at various tech events, sharing insights on cloud technologies, CI/CD, and the integration of AI in software development.

    - To The Cloud and Beyond: "How to deploy Next.js"
    - The DevOps Conference 2023: "Oursource Your Continuous Delivery Pipeline by Deploying Straight From Source"
    - GitHub Galaxy: "The Secret to Writing High-Quality Code"
    - DevOps Finland August meetup: "Empowering Software Developers With AI-Based Coding Assistants"

- Contributed to the development and implementation of cutting-edge DevOps practices, significantly enhancing deployment efficiency and system reliability for clients.

- Lead-developer at Eficode's reference customer Puro.earth, instrumental in building a team following the best practices of modern software development and leveraging a fully automated cloud-native and GitOps delivery strategy.

Founder & CTO, *ClaimR B.V.*   **Den Bosch, Netherlands** *01/2021 - present*

- Core architect of the Unveiler location-verification Software-as-a-Service platform for mobile devices.

- Leading the development of the ClaimR Auth Android application.

Research Assistant, *Aalto University*   **Espoo, Finland** *01/2019 - 12/2019*

- Created a street lighting digital twin for the EIT Digital Activity "Get Home Safely".

- Worked on digital twin projects, including safety and risk management prototypes for high-pressure vessels and a case study of sauna comfort and safety.

Freelancer, *Wageningen University*   **Wageningen, The Netherlands** *06/2018 - 09/2018*

- Designed, developed and hosted the e-conference platform Foodathon Solutions Market for the SGD Conference.

Junior Software Developer, *triptic*   **Eindhoven, The Netherlands** *12/2016 - 07/2018*

- As a PHP developer of the core development team working on improving and securing Iris Intranet.

Education

Master in Cloud Computing & Services, *KTH Royal Institute of Technology* **Stockholm, Sweden** *2019-2020*
Aalto University **Espoo, Finland** *2018-2019*

- Double degree master from EIT Digital Master School.

- Completed his thesis on chaos engineering, focusing on container-based deployments. Graded 5/5.

- Achieved a GPA of 4.67/5.

- Minor in Innovation & Entrepreneurship.

EIT Digital Summer School: Machine Learning for Financial Data, *ELTE* **Budapest, Hungary** *Jul 2019*

Bachelor Software Science, *Eindhoven University of Technology* **Eindhoven, The Netherlands** *2015-2018*

- Attained the bachelor's degree Cum Laude.

Summer School International, *Peking University* **Beijing, China** *Jul 2017*

Skills

- **Cloud Platforms:** Azure**, AWS*, GCP*, Heroku*, Vercel*

- **DevOps Tools:** Kubernetes**, Terraform*, Pulumi*, GitHub Actions*, GitLab CI*, Jenkins

- **Programming:** TypeScript*, Bash*, RobotFramework*, Python*, Java, PHP**, Go, Scala, C, R

- **Web Development:** React**, Next.js**, Nest.js**, Django*, REST**, OpenAPI**, GraphQL*

- **Databases:** PostgreSQL**, Redis*, MySQL, MongoDB*, FaunaDB*, Prisma**

- **Other:** Git**, Turborepo*, LaTeX, Serverless Architecture*, Digital Twin Technologies, Unity*

  * / ** Indicates more than 100 / 1000 hours of experience on production systems since January 2023.
  * / ** Indicates more than 100 / 1000 hours of experience on production systems anytime.

Languages

- **Dutch** [Native]
- **English** [Fluent]

Extracurricular Activity

- Participated in hackathons, including Junction (2018: 1st in challenge, 2019, and 2020), RAW.Galileo.London (1st in track), Open BIM DeepHack (1st), Galileo Innovation Challenge (2nd in track), IoThon (2nd in track), and FireHack.

- Various professionally relevant certifications:

  - Azure Network Engineer Associate (AZ-700) **Microsoft** *Jan 2023*
  - GitHub Actions **GitHub** *Jun 2022*
  - Certified Associate Cloud Engineer **Google Cloud** *May 2021*
  - Certified SAFe 5 Agilist **Scaled Agile Inc** *Feb 2021*
  - GitLab Certified Services Engineer Professional **GitLab** *Nov 2020*

- Contributed to open source projects, including personal projects like continuous delivery pipelines for this CV.

Publications

- Chaos Engineering for Containerized Applications with Multi-Version Deployments [KTH, Aalto University]

- A Digital Twin for Safety and Risk Management: A Prototype for a Hydrogen High-Pressure Vessel [Springer]

- Digital Twin for Safety and Comfort: A Case Study of Sauna [IEEE Xplore]