

Thibaut van Bergen

Python Software Engineer

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Amsterdam, NL



Summary — Product-minded Software Engineer with 6+ years of experience in Python-based greenfield projects, with background in engineering, robotics & AI. Specialised in end-to-end development of cloud-native (web) applications (B2B, SaaS), in Agile/Scrum multidisciplinary teams within start-ups and international corporations. Strong advocate of clean code, automated workflows and clear communication for optimal collaboration.

Experience

Present Jun 2022	Founder @ Stacktful — Amsterdam, NL As a Freelancer, developed and/or launched various cloud-native web applications for different clients/projects: DevOps Engineer @ Louwman Group — Den Haag, NL (Remote) — Feb 2025 - Present Trimbel — cloud-native platform for car dealerships to manage their inventory and sales <ul style="list-style-type: none">Setting up the cloud infrastructure (Azure) and CI/CD pipeline (Azure DevOps) for the platform with Infrastructure-as-Code (Terraform). <div>AzureTerraformCI/CDGitAzure DevOpsAgileScrum</div> Software Engineer @ ACT Commodities — Amsterdam, NL — Jun 2024 - Oct 2024 Talos — cloud-native ecosystem of distributed, event-driven apps handling regulatory reporting of ACT's trading activities <ul style="list-style-type: none">Monitored and optimized reporting functions ensuring accurate and compliant daily trade activity submissions.Added automations to reporting workflows, further reducing operational workload and manual intervention from engineers.Investigated and corrected inaccurate historical reports, enhancing data integrity and regulatory compliance. <div>PythonPostgreSQLAzurePytestCI/CDGitGitHubJiraAgileScrum</div> Software Engineer @ WhiteSpace Solutions — Den Haag, NL (Remote) — Jan 2024 - Apr 2024 AIM® — cloud-native multi-tenant web application (SaaS) for AI-driven well trajectory optimization and planning <ul style="list-style-type: none">Repaired REST API server's long broken data import and export endpoints and improved data models.Decoupled backend optimization (micro)services from databases to ease workload of algorithm developers. <div>PythonFastAPIPostgreSQLDockerGoogle CloudPytestCI/CDGitGitHubOpenAPISwaggerNotionAgileScrum</div> Lead Software Engineer & Scrum Master @ Ebitwise — Amsterdam, NL (Remote) — Jun 2022 - Oct 2023 DashWise® — cloud-native multi-tenant web application (SaaS) presenting real-time financial dashboard for start-ups / scale-ups <ul style="list-style-type: none">Architected application's full stack i.e. frontend, backend (REST API), database, cloud infrastructure and launched MVP.Created CI/CD pipeline from ground up, including testing, automated workflows, infrastructure-as-code, and deployment.Built user authentication system using OpenID Connect, OAuth2.0, JWT and designed role-based access control (RBAC).Built automated ETL pipeline drawing client data (from Exact Online API to BigQuery) to create financial dashboard data.Set up and lead teams's Agile/Scrum ceremonies with automated workflows (ClickUp) and communication channels (Slack). <div>PythonFlaskReactJSJavaScriptDockerGoogle CloudBigQueryTerraformPytestCI/CDGitGitHub ActionsClickUpAgileScrum</div>
Oct 2022 Feb 2021	Software Engineer & Scrum Master @ Avonic — Delfgauw, NL CamDirector® — AI-driven multiple camera system for automated lecture recordings with 'teacher tracking' <ul style="list-style-type: none">Developed CamDirector from early prototype to MVP launch through iterative field testing and user feedback.Refactored code extensively to create clean, modular and decoupled software architecture and optimized tracking algorithms.Completely revamped CamDirector's server-side rendered (SSR) application and improved UX design for MVP launch.Performed code reviews and tutoring juniors on software engineering best practices (Clean Code, SOLID principles etc.).Improved team's Agile / Scrum incl. setting up project management workflows and automations, and leading ceremonies. <div>PythonFlaskReactJSJavaScriptHTMLCSSDockerOpenCVWebSocketsPytestCI/CDGitGitHub ActionsJiraAgileScrum</div>
Mar 2020 Dec 2018	Software Engineer @ Fleet Cleaner — Delft, NL FLS Localization — Onboard localization system for ship-hull-cleaning robot based on Forward Looking Sonar (FLS) images <ul style="list-style-type: none">Delivered Proof-of-Concept for automated localization system enabling centimeter-level accuracy, including image filtering & processing, quay wall detection, target tracking and sensor data fusion (i.e. Extended Kalman Filter). <div>PythonOpenCVNumPyCythonGitJira</div>

Skills

Software	<ul style="list-style-type: none">REST APIs — Python Django Flask FastAPIDatabases — PostgreSQL BigQuery SQLite SQLWeb Development — ReactJS JavaScript HTML CSS	<ul style="list-style-type: none">Test-Driven Design (TDD) — Pytest Unittest mypyAPI Documentation — OpenAPI Swagger PostmanVersion Control — Git GitHub
DevOps	<ul style="list-style-type: none">Cloud Computing — Google Cloud Azure AWSInfrastructure-as-Code — TerraformScripting & Automation — Python Bash	<ul style="list-style-type: none">Containerization — DockerCI/CD — GitHub Actions Cloud BuildAgile — Scrum Kanban Jira Confluence ClickUp Slack

Languages

	A1	A2	B1	B2	C1	C2
ENG	●	●	●	●	●	●
NED	●	●	●	●	●	●
FRA	●	●	●	●	●	●
ESP	●	●	●	●	○	○

Strengths

- Growth mindset
- Pragmatic & result-driven
- Complex problem solving
- Teamwork & workflow optimisation
- Multicultural interpersonal skills

Education

BSc & MSc Mechanical Engineering @ Technische Universiteit Delft — Delft, NL

Specialisation in BioRobotics (Robotics and AI)

- > Autonomous Drone Competition: design of AI computer vision algorithm (Python/C++) for obstacle avoidance, broke record of longest distance traveled without collision.
- > Minor: Electric Engineering for Autonomous Robots

Python Matlab Simulink C C++ Delphi Robotics AI (Computer Vision) Machine Learning Algorithms

French Baccalaureat @ Lycée Français Vincent van Gogh — Den Haag, NL

Scientific Track, with High Honors (17/20)

- > Delegate @ Model United Nations (MUN): 2009, 2010, 2011

Certifications

AWS Certified Solutions Architect — Associate (SAA-C03) @ Amazon Web Services — Online

In progress (expected completion by Mar 2025)

Extracurriculars

Nov 2018
May 2018

Research & Development Engineer (Intern) @ Nippon Electric Company (NEC) — Tokyo, JP

Project MIDoT® — IoT device for topical audio indexing via Micro Identifier Dot-on-Things (MIDoT®) technology

- > Prototyped device as proof-of-concept from scratch, covering hardware, electronics, embedded software and data processing.
- > Designed and 3D-printed MIDoT® application mechanism, developed circuitry, and integrated sensors, camera and microphone.
- > Created and tested control software integrating MIDoT® pattern recognition algorithm and real-time sensor data processing.
- > Presented prototype and research findings in a conference paper at the IEEE 5th World Forum on IoT 2019.

Python OpenCV NumPy Arduino C++ SolidWorks 3D Printing Circuit Design Sensors IoT

Feb 2018
Jan 2017

President of Executive Board @ Study Association Antoni van Leeuwenhoek (AvL) — Delft, NL

Study association affiliated with the BioMedical/BioMechanical Engineering (BME/BMD) MSc programs at TU Delft

- > Led board of 7 members and ±100 active members, managed association's finances, events, marketing and communication.
- > Organised and hosted social events, guest presentations, excursions and career fairs.
- > Conducted market research for a prosthetics startup (Rebooon Dynamics), our study trip sponsor.

Team Management Event Organisation Financial Management Marketing Communication Networking

Jan 2016
Aug 2015

Vehicle Dynamics Engineer @ Formula Student Team Delft — Delft, NL

DUT16 — Battery-powered electric 4WD race car for Formula Student competition (2016 edition)

- > Created dynamic models (Matlab) to analyse the car's performance w.r.t. its geometrical parameters.
- > Used models to determine optimal geometry for highest performance in the vehicle dynamics perspective.

Matlab Simulink

Interests

Interests Traveling (±40 countries) — Technology — Psychology — Cosmology — Philosophy — Mathematics

Languages English (C2) — French (C2) — Dutch (C2) — Spanish (B2) — German (B1) — Portuguese (B1) — Russian (A2)

Sports Dancing (Salsa & Bachata) — Fitness — Skiing — Motorsports (Karting) — Surfing — Football — Tennis — Field Hockey (played National Youth League @ Klein Zwitserland)

References

Conno Kuyt — Head of Product @ Ebitwise

 <https://www.linkedin.com/in/connokuyt>

 Upon Request

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Krittaboorn Tantikarun — Software Engineer @ ACT

 <https://www.linkedin.com/in/krittaboorn-tantikarun>

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