

Jeremiah Aizeboje

Senior Backend Engineer

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Profile

Senior backend engineer with more than ten years' experience building and scaling products from zero to one and beyond. Currently a VP at Bank of America, building Python trading tools for the XVA desk. A track record of owning backend architecture, shipping fast, and delivering reliable systems used by tens of thousands of people. Experienced across Python, distributed systems and cloud infrastructure (AWS, Kubernetes).

Skills

Languages: Python, Go, TypeScript, JavaScript, SQL

Backend: Flask, Tornado, REST APIs, SQLAlchemy, Pandas, NumPy

Frontend: React

Data: PostgreSQL, MySQL

Cloud and infrastructure: AWS (EC2, RDS, S3, VPC, Route 53, CloudFormation), Kubernetes, Docker, Nginx

Delivery: Jenkins, Git, CI/CD, Test-driven development, Agile, DevOps

Experience

Bank of America · Senior Front Office Developer (VP), XVA Technology Sep 2022 – present · London, UK

- Own and evolve Python trading tools used by front office, risk and finance teams across London and New York.
- Design and maintain high-performance REST APIs behind internal trading workflows and analytics.
- Improve the reliability of data pipelines and reporting systems, keeping daily reconciliation of trading data consistent.
- Build React frontends for desk tools, backed by Python (Flask) services.
- Work closely with traders and quants to deliver production-grade tools on fast iteration cycles.
- Deploy and manage services through CI/CD pipelines (Jenkins), with automated unit and integration testing.

TECH Python, Flask, Tornado, React, Jenkins

Bakken & Bæck · Senior Software Engineer Dec 2016 – Aug 2022 · Oslo, Norway

Bakken & Bæck is a design and technology studio, founded in Oslo in 2011. I led backend development across multiple zero-to-one products, owning architecture, scaling and production delivery, and worked on in-house machine-learning projects with TensorFlow and PyTorch.

Kron · An investment platform for everyone · Backend lead, 2016 – 2019

- Built the backend from scratch, on my own: a Python (Tornado) service on PostgreSQL.
- Implemented the API integrations with Formue, Kron's parent company at the time, which executed the trades.
- Built the admin dashboard in Preact and the Pandas analysis of each client's portfolio. Kron is now part of Storebrand and used by more than 140,000 people.

TECH Python, Tornado, PostgreSQL, SQLAlchemy, Alembic, Pandas, Preact, Ansible

Samsolgt · Selling a home, digitally · Backend engineer, 2019 – 2022

- Designed and implemented the Python REST APIs that kept the state of every home sale in sync across the app.
- Liaised with DNB, Norway's largest financial services group, to architect a cloud setup with bank-grade security; ran eight AWS environments as infrastructure-as-code, set up the Jenkins CI pipeline and ran the services on Kubernetes.
- Worked in a cross-functional team from Bakken & Bæck and DNB. DNB says much of the technology was carried over into DNB Eiendom's main service, which handles around 20,000 home sales a year.

AWARD DOGA Award for Design and Architecture, 2020, given to the project by Design and Architecture Norway.

TECH Python, MySQL, React, Nginx, Jenkins, Kubernetes, AWS, CloudFormation

På(fyll) · The milkman model for household products · Lead developer, 2021 – 2022

- Built the backend from scratch, on my own: a Python (Tornado) service on PostgreSQL that served 2,000+ customers before the service closed in 2025.
- Integrated Helthjem's logistics API to automate container pickups and deliveries; set up Jenkins CI/CD deploying to Kubernetes.

TECH Python, Tornado, PostgreSQL, React, Nginx, Jenkins, Kubernetes, Linode

WaveNet for Norwegian speech · In-house research at Bakken & Bæck

Researched integrating DeepMind's WaveNet speech synthesis into Orbit, the studio's natural-language platform, and prepared Norwegian pronunciation training data (TensorFlow).

Boleyn Croaker · Developer / Data Analyst (Intern)

Feb – Aug 2016 · Edinburgh, UK

I mined web data with Go, built a web application with Node.js and Angular 2, built a desktop AWS client in C++ with Qt, and used Unreal Engine for 3D architectural visualisation.

TECH Go, Node.js, Angular 2, AWS, C++ / Qt, Unreal Engine

Make it Social · Backend Developer

May 2014 – Jul 2015 · Edinburgh, UK

Make it Social was an Edinburgh startup building group-booking and group-payment software. I built APIs and web services in Python (Django) and Go to meet new clients' needs, and built and maintained the AngularJS app.

TECH Python, Django, Go, AngularJS

Earlier roles · 2012 – 2014

Coding Trainer, Edinburgh Napier University, for Royal Bank of Scotland, Edinburgh; Database Systems Demonstrator, Edinburgh Napier University, Edinburgh; Web Developer (Intern), University of Utah, Salt Lake City; Web Developer, PoleVault Media, Salt Lake City; Web Developer, SiT, Trondheim.

Education

MSc Artificial Intelligence (Intelligent Robotics) · University of Edinburgh

2015 – 2016

BEng Software Engineering (First Class) · Edinburgh Napier University

2010 – 2014

Computer Science (Study-abroad year) · University of Utah

2012 – 2013

Research and publications

A laser pointer as a touchscreen · BEng honours project, Edinburgh Napier University, 2014

Using a laser pointer as a mouse, with a webcam, a projector and OpenCV. A full paper at ICEIS 2015; an extended version was one of 30 papers selected, from 327 submissions, for Springer's LNBIP series.

Aizeboje, J. and Peng, T. (2015). An Approach to using a Laser Pointer as a Mouse. Proceedings of the 17th International Conference on Enterprise Information Systems (ICEIS 2015), Barcelona, pp. 543–552. SciTePress.
doi.org/10.5220/0005378005430552

Aizeboje, J. and Peng, T. (2015). An Approach to a Laser-Touchscreen System. Enterprise Information Systems: ICEIS 2015, Revised Selected Papers. Lecture Notes in Business Information Processing, vol. 241, pp. 476–495. Springer.
doi.org/10.1007/978-3-319-29133-8_23

Recognising ceilidh dances from an overhead camera · MSc dissertation, University of Edinburgh, 2016

A modified linear-chain conditional random field that recognises the stage of a ceilidh-style group dance from overhead video: 96.85% and 94.42% accuracy on two dances (within five frames), given labelled dancer positions. The dissertation is the reference cited for the Edinburgh Ceilidh Overhead Video Data, a dataset later used in an ECCV 2022 paper.

Aizeboje, J. (2016). Ceilidh dance recognition from an overhead camera. MSc dissertation, School of Informatics, University of Edinburgh. Supervised by Prof. Robert Fisher.
homepages.inf.ed.ac.uk/rbf/DISSERTATIONS/msc_20161996.pdf

Volunteering

IAESTE · Since 2012. Local committee member and IT officer in Edinburgh, and now part of the volunteer IT team behind IAESTE's international Exchange Platform. The team received IAESTE's James Newby Medal in 2022.