Hreinn Juliusson

Quantitative Analyst · Software Engineer

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Profile

Quantitative analyst and software engineer with an Engineering Physics background (Uppsala University) and over seven years of industry experience. Currently developing sports pricing models in C++ at Kambi, building on several years of designing and operating high-load, cloud-native Java services for the company's sportsbook and Bet Builder products.

Experience

Kambi

Sweden

Quantitative Analyst

Jan 2026 – Present

- Develop and maintain sports models in C++ used for pricing in the Kambi sportsbook.
- Work on sports modelling together with traders and fellow quantitative analysts.

Software Developer

May 2021 – Dec 2025

- **Bet Builder (Same Game Parlay):** Java microservices (Spring Boot, Vert.x) serving high traffic on EKS across multiple AWS regions; REST and Kafka communication; deployment via Helm and ArgoCD. Worked closely with sports and trading experts and quantitative analysts.
- **Calculation Server:** ECS-based Python (Uvicorn) service executing binary sports models developed by quants; CI/CD with GitHub Actions and Terraform.
- **Legacy migration:** Split the sportsbook monolith into domain services and migrated large data volumes from Oracle to PostgreSQL under a zero-downtime policy.
- **Operations & FinOps:** Observability with Grafana, Prometheus, Loki and Micrometer; right-sized autoscaling and tracked costs with Vantage and AWS Cost Explorer; on-call rotation for owned components.

Aurora Innovation

Uppsala, Sweden

Software Developer

Feb 2019 – May 2021

- Developed teleQ, a task-management and communication platform for Swedish primary health care: a Java (Jetty, MongoDB) core with microservices for telephony, SMS, video calls, billing and BankID authentication.
- Built the reporting service (Spring Boot, PostgreSQL, AngularJS).
- Automated deployments with Ansible playbooks and Fabric (Python).
- Supervised Master's thesis students.

Education

MSc Engineering Physics – Computational Science, Uppsala University 2012 – 2018

- Master's thesis (Aurora Innovation): workflow prediction with deep learning (LSTM), with Bayesian optimisation of network hyperparameters.
- Bachelor's thesis (Dept. of Scientific Computing): multigrid preconditioner for deal.II.

Skills

Languages	C++, Java, Python, SQL, Rust, JS
Modelling	Sports modelling, statistical modelling, deep learning (LSTM), numerical methods
Backend	Spring Boot, Vert.x, Kafka, REST, PostgreSQL, Oracle, MongoDB
Cloud & DevOps	AWS (EKS, ECS), Kubernetes, Helm, ArgoCD, Terraform, GitHub Actions, Ansible
Observability	Grafana, Prometheus, Loki, Micrometer

Other

Jfokus – Member of the programme committee 2023 – 2025
Uppsala University – Teaching assistant, Programming I–II and Computational Science I–II 2016 – 2018
Swedish Prison and Probation Service (Kriminalvården) – Correctional officer (part-time) 2016 – 2019