

NAZMUL HAQUE KHAN

FULL-STACK DEVELOPER | DATA ANALYTICS | SERVICE DESIGN

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PROFESSIONAL SUMMARY

Full-stack developer with a structured, design-driven approach to building software — from clear requirements and system modeling through to deployed, production-quality applications. Currently completing an MSc in Software Engineering (Digital System & Service Design) at LUT University with a 4.65/5 GPA. Experienced in React, TypeScript, FastAPI, and PostgreSQL with deployed projects including Kirjastokaveri, a library companion web app serving Finnish users. Applies service design and UX methods to create meaningful, user-centered solutions, and leverages Python (Pandas, NumPy, Scikit-learn) for data analysis and visualization.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, SQL, HTML, CSS
Frontend	React, Vite, Tailwind CSS, Leaflet (maps), responsive UI development
Backend	FastAPI, REST API design, SQLAlchemy, Alembic, APScheduler, Node.js
Databases	PostgreSQL, PostGIS, MySQL
Data & ML	Pandas, NumPy, Scikit-learn, Plotly, Folium, Seaborn, Jupyter
DevOps	Docker, Git/GitHub, CI/CD, Traefik (reverse proxy), Linux, AI-assisted development (GitHub Copilot)
Methods	Agile/Scrum, Service Design, UX Research, MoSCoW Prioritization

EDUCATION

MSc (Tech), Digital System & Service Design — LUT University, Finland *GPA 4.65/5 | Expected 2026*
Thesis: evaluating how black-box LLM APIs (OpenAI, Claude, Gemini) change and behave over time.

BSc, Computer Science & Engineering — Eastern University, Bangladesh *GPA 3.86/4.00*

Master's-level CS Coursework — University of Helsinki, Finland

PROJECTS

Kirjastokaveri — Finnish Library Companion App

[React](#) / [TypeScript](#) • [FastAPI](#) • [PostgreSQL](#) • [Docker](#) • [Alembic](#)

Demo: <https://kirjastokaveri-frontend.onrender.com/>

Repo: <https://github.com/iamnhk/Kirjastokaveri>

- Designed, built, and deployed a full-stack web application enabling users to search Finnish library catalogs through external API integrations, manage personal reading lists, and discover nearby libraries via an interactive Leaflet map.
- Engineered automated background jobs (APScheduler) to monitor book availability and push real-time notifications, improving user engagement with the platform.
- Managed schema evolution with Alembic migrations and containerized the full stack (frontend + API + database) in Docker for reproducible development and deployment.

Charger Matters / Feast-Faster — Demola Innovation Project

[React](#) / [TypeScript](#) • [PostgreSQL](#) / [PostGIS](#) • [Python](#) • [Traefik](#) • [Bun](#)

Repo: <https://github.com/nibsuoogee/feast-faster>

- Co-designed a “charge-and-dine” platform for EV drivers and restaurant partners, contributing service design deliverables: desk research, user survey, journey map, service blueprint, and MoSCoW-prioritized requirements.

- ▶ Built and integrated the Restaurant Order Dashboard featuring a real-time Kanban workflow with live countdown timers, connected to backend REST APIs via thoroughly reviewed pull requests.
- ▶ Delivered production-grade features in an agile team with planning sessions, shared code ownership, and peer code reviews.

Zelda — Data-Intensive E-Commerce Prototype

React • PostgreSQL • Docker

Repo: <https://github.com/himel01/zelda>

- ▶ Architected a distributed e-commerce prototype demonstrating multi-region partitioning, replication strategies, and region-aware data handling for a data-intensive systems course.
- ▶ Implemented core features including user authentication, vendor dashboard, and Docker-based deployment automation with comprehensive documentation.

COVID-19 Pandemic Data Analysis

Python • Pandas • Plotly • Folium

Notebook: <https://nbviewer.jupyter.org/github/iamnhk/Data-Analysis-Projects/blob/master/Covid-19/COVID-2019-Analysis.ipynb>

- ▶ Cleaned, merged, and analyzed public datasets from Johns Hopkins University and THL, building interactive Plotly charts and Folium geo-maps to visualize global and Finland-specific pandemic trends (Jan–Jun 2020).
- ▶ Published a reproducible Jupyter notebook with clear methodology documentation, enabling others to verify and extend the analysis.

PhotoTag — Software Factory Lab, University of Helsinki

JavaScript • Node.js • LimeJS • Git • CI/CD

- ▶ Collaborated in an industry-supervised team (F-Secure) to develop a photo tagging application, gaining hands-on experience with CI/CD pipelines, automated testing, and team-based agile delivery.

WORK EXPERIENCE

Service Worker / Team Leader — SOL Palvelut Oy, Helsinki

May 2012 – Present

- ▶ Lead daily operations planning, coordinate multi-person team schedules, and ensure consistent service delivery across client facilities in a fast-paced environment.
- ▶ Train and onboard new team members, conduct quality assurance checks, and maintain full compliance with health and safety regulations.
- ▶ Consistently recognized for strong client communication and reliability, contributing to improved customer satisfaction scores over 12+ years of service.

Trainee Software Engineer — Capisoft Communication Ltd, Dhaka

Feb – Jun 2009

- ▶ Maintained and enhanced the company's website using PHP and MySQL; supported development and customization of micro-credit system software.
- ▶ Provided end-user technical support for installations and troubleshooting; collaborated cross-functionally to translate customer needs into software features.

PROFESSIONAL TRAINING

- ▶ Integrify Academy — Six-month intensive program in Data Science & Machine Learning (data manipulation, analysis, visualization).
- ▶ The Shortcut — Python for Data Analysis Edition (Aug–Dec 2019).
- ▶ BASIS (Bangladesh) — Object-Oriented Programming: design patterns, refactoring techniques, and software architecture.

LANGUAGES

English (C1 – Advanced) • Finnish (A2 – Elementary) • Bengali (Native)

VOLUNTEER EXPERIENCE

- ▶ Eastern University Computer Club — Executive Member; organized tech events and workshops to build campus developer community.
- ▶ Confronting AIDS Challenges in the 21st Century — Volunteer campaigner raising public awareness about HIV/AIDS prevention.