

HAZEM EL-KHALIL

h.elkhalil@hotmail.com | Malmö, SN, Sweden | [linkedin.com/in/hazem-elkhalil/](https://www.linkedin.com/in/hazem-elkhalil/) | github.com/HazemE1

PROFESSIONAL SUMMARY

Versatile and driven software engineer with a strong background in fullstack development, leadership, and problem-solving. Since joining Sveriges geologiska undersökning (SGU) in November, I have taken ownership of multiple high-impact projects—delivering critical solutions under tight deadlines and leading development efforts following a major organizational shift. I specialize in Java (Spring Boot), React.js (Vite), and TypeScript, with extensive experience deploying and managing PostgreSQL, MySQL, MSSQL, and OpenSearch databases. My work includes developing a centralized data platform handling over 1.2 million entries efficiently, and evaluating technical candidates during recruitment.

Beyond SGU, I have successfully led freelance projects such as [Halkan.se](#), a course booking platform serving over 350 transactions monthly, and [Assistena.se](#), an AI-powered study tool that assists around 80 students people monthly. Additionally, I bring years of backend development experience from the gaming community (SpigotMC), where I built custom plugins, managed a large multiplayer server, and became a recognized contributor. I thrive in dynamic environments, take initiative, and enjoy mentoring and leading teams to deliver practical, scalable solutions.

PROFESSIONAL EXPERIENCE

Sveriges Geologiska Undersökning

Lund, SN, Sweden

Software Engineer

2024 - Present

- Led development and maintenance of scalable data solutions and applications for Sweden's national geological survey, contributing to key projects aimed at data centralization and improved system functionality
- Led Development During Organizational Restructuring: Took initiative and assumed technical leadership on multiple projects after a major downsizing, ensuring continuity and delivery despite the loss of over 40 developers
- Delivered High-Impact Projects on Tight Deadlines: Successfully delivered several complex projects, including those inherited mid-development, by quickly assessing challenges, adapting, and taking ownership of the full development lifecycle
- Technical Evaluation and Hiring: Participated in the recruitment process for a mid-level developer, responsible for evaluating technical competencies and ensuring alignment with team standards.

Assistena

Remote

Co-founder and Developer

September 2023 - Present

- Led the development of a serverless web application with Google Cloud services and Firebase, utilizing Node.js (TypeScript), Python, and advanced AI integration to generate and manage study materials
- Developed a frontend dashboard where students can practice, edit, and organize their study materials
- Integrated Python-based AI components with OpenAI (GPT-3.5) and Vertex-AI, optimizing study material generation and flashcard creation
- Integrated Stripe for subscription management using Stripe.js and Firebase Cloud Functions, ensuring seamless client transactions and webhook monitoring.

AE Körkortsgruppen AB

Remote

Freelance Web Developer

June 2022 - Present

- Developed an application from scratch utilizing Google Cloud services, React.js, and Node.js, allowing users to book driver's license courses
- Over 1,500 students have used the application to book courses this year
- Developed a user interface with Create React App and Material UI, integrated with Firebase Realtime Database for course selection, personal details input, and payments via Klarna, Stripe, or Swish APIs
- Created an admin panel for the CEO to manage booking dates, view upcoming courses, and access participant information
- Created a reminder system using Twilio Messaging API to send automatic reminders to participants.

SpigotMC

Remote

Backend Developer

January 2014 - January 2019

- Founded and launched Arcanusverse, a Spigot server which operated from 2014 to 2016.
- Developed and maintained four core plugins utilizing MySQL, Java, and the Spigot API.
- Managed a player base averaging 100 players per day.
- Developed 15 plugins for various Minecraft servers, collectively used by over 100 servers and 1500 players.

- Helped other developers in the Spigot community, receiving over 50 vouchers and becoming well-known for assistance and support in the spigot community.

SKILLS

- **Frontend:** JavaScript, React.js, React Native, HTML/CSS, Jest, Vite, Material UI, Next.js, Web Development, Automated Testing, Tailwind Css
- **Backend:** TypeScript, Springboot, Spring, Python, Node.js, Socket connections, JUnit, Create React App, Multithreaded development, Java, Flask, Express.js, AI integration, Unity, Object-oriented programming, Problem-solving, .NET, C#, Data Structures & Algorithms, Automated Testing
- **Database:** Elasticsearch, MySQL, Postgres, MSSQL, OpenSearch, Data centralization, MongoDB, NoSQL
- **DevOps:** Development Operations (DevOps), Kubernetes, Docker, CI/CD
- **Project management:** SCRUM, Agile, Infrastructure as code, Team collaboration, Agile methodologies, Technical evaluation, CRM, Scalable solutions, Mentoring, Leadership, SaaS
- **Thirdparty Integrations:** GCP, Stripe, Terraform, Google Cloud Platform, Stripe.js, Firebase Cloud Functions, Firebase, Twilio Messaging API
- **Languages:** Swedish, Arabic

EDUCATION

Malmö University, Sweden

Bachelor's, Computer Science

- Comprehensive knowledge of data types, object-oriented programming, data structures, algorithms, and multithreaded development.
- Proficient in web development and socket connections.
- Hands-on experience in Agile project environments through participation in five group projects.
- Strong analytical and problem-solving skills.
- Committed to delivering high-quality, scalable and accessible software solutions.