

Duje Vukovac

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EDUCATION

Vrije Universiteit Amsterdam
Bachelor of Science, Computer Science

Amsterdam, NL
Sep 2025 – Sep 2028

EXPERIENCE

Solo Developer

2025 – Present

Personal Projects

- Building AI-powered tools ranging from a Telegram bot for spaced repetition to a news aggregator with LLM-generated summaries.
- Developed a full-stack web app for startup evaluation practice using Flask, SQLite, and Groq API.
- Shipped each project end-to-end from idea to working product across Python, Node.js, Flask, Express, and SQLite.

Head of Mod Development

Sep 2021 – Sep 2023

Hearts of Iron IV Community

- Built, maintained and optimized a multisystem mod using Paradox's scripting framework, reaching hundreds of downloads.
- Achieved approximately 30% improvement in in-game performance through mod optimization.

Community Manager

Sep 2021 – Sep 2023

Hearts of Iron IV Community

- Grew community from 30 to over 500 members, leading a team of 8 moderators.
- Organized over 50 events with over 80% capacity fill rate and brokered partnerships yielding 2 competitive tournaments.
- Designed community advertising systems and tracked member analytics via spreadsheets.

PROJECTS

StudyBot | *Python, Telegram API, Groq API*

- Built a custom Telegram bot connected to Groq API that turns study materials into active recall questions.
- Supports PDF uploads, approve/reject filtering, scheduled question delivery, and weak-topic tracking.
- Generated over 130 vetted questions in one week.

Daily Briefing | *Node.js, Express, Groq API, NewsAPI, Reddit API*

- Developed an AI-powered news dashboard aggregating Reddit and NewsAPI feeds.
- Integrated Groq LLM for AI-generated summaries.
- Proxied multiple APIs through an Express backend.

Startup Evaluation Tool | *Python, Flask, SQLite, Groq API, Hacker News API*

- Built a Flask web app as a daily startup judgment trainer using Hacker News and Groq LLM.
- Fetches Show HN posts, structures startups for evaluation, then reveals AI-generated critique post-submission.
- Sessions persist in SQLite with full history tracking.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS, Assembly, MATLAB

Frameworks: Flask, Node.js, Express

Developer Tools: Git, SQLite, Claude Code

APIs: Telegram API, Groq API, NewsAPI, Reddit API, Hacker News API