Tomáš Grusz

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EXPERIENCE

- **Make** — Prague, CZ
  Associate Software Engineer - Frontend (officially Full-Stack) — *June 2023 - Now*
  - **Responsibilities**:
  - : Contribution to public web development on make.com
  - : Code migration from JavaScript to TypeScript
  - : Design integration from Figma into React + SCSS
  - : Troubleshooting code-related issues and bugs
  - : GraphQL queries and management of Contentful CMS
  - **Milestones and Achievements**:
  - : Introduced and directed a Component Transition and Refactor strategy
  - : Worked alongside the Growth Engineering team on experiments using Growthbook and Trackman
  - : Gained ownership of styling implementation and participated in design of new components
  - : Developed the first iteration of Solutions Experience (SEv1)
  - **Technologies**: Next.js, React, TypeScript, SCSS, GraphQL, Figma, Cypress, CircleCI

EDUCATION

- **University of Birmingham** — Birmingham, UK
  BSc. Computer Science - GPA 3.75 - Class II (Division I) — *September 2020 – June 2023*
  - **First Year**: I acquired a strong foundation in computer science, including mathematical and logical principles, data structures, and algorithms. Furthermore, I studied Java programming, JDBC, and JavaFX, which I applied in Full Stack Application Development, where I worked on a group project simulating a basic social media platform. Finally, I looked into Artificial Intelligence, mainly machine learning using Weka; (Grade A)
  - **Second Year**: I studied functional programming in Haskell and delved into Operating Systems, expanding my programming skills in C. I participated in a team project focused on developing a mobile application for attendees of the Birmingham Commonwealth Games 2022. Second semester, I explored AI topics in greater depth, delved into common networking vulnerabilities, and worked on a team project web application for freshers; (Grade A)
  - **Final Year**: I explored the advanced networking topics of IP, TCP/UDP, synchronisation, as well as security including cryptography, web attacks, and privacy. Second semester, I delved into IoT programming with Arduino and mobile applications using Flutter IDE, as well as studied evolutionary algorithms. Additionally, I spent the year working on a final year project - Studdy.

- **Gymnázium, Alejová 1, Košice** — Košice, Slovensko
  Osemročné štúdium špecializované na matematiku zakončené maturitou (1.0) — *September 2011 – June 2020*

PROGRAMMING SKILLS

- **Languages**: TypeScript, JavaScript, HTML & CSS, SCSS, SQL, Python, MATLAB

- **Technologies**: Next.js, React, Three.js, Node.js, Express

- **Hosting**: Cloudflare, DigitalOcean, Vercel, Nginx

- **Databases**: PostgreSQL, MongoDB

- **Testing**: Jest, Cypress

- **Developer Tools**: GitLab, GitHub, Visual Studio Code

- **UI/UX Design**: Figma, Balsamiq, Blender, Canva

Projects

- **Terren (WIP)**   https://terren.grusz.dev
  A web-based procedural map generator and 3D visualiser   *December 2023 – Now*
  - **Description**: A web application where users can procedurally generate terrain maps based on multiple generative algorithms as well as import their own noise maps to visualise them. Additional plans to add biome maps and more...
  - **Stack**: Next.js, React, TypeScript, SCSS, Three.js, Framer Motion

- **grusz.dev**   https://grusz.dev
  Personal Website & Portfolio   *July 2023 – October 2023*
  - **Description**: A personal website and portfolio built with Next.js 13 and hosted on Vercel, where I practice my web development skills and showcase my creativity.
  - **Stack**: Next.js, React, Typescript, SCSS, Framer Motion, Figma, Vercel

- **Studdy**   University of Birmingham
  Final Year Project   *October 2022 – May 2023*
  - **Description**: A full-stack web application that uses gamification mechanics and mnemonic techniques to assist students with memorising educational material
  - : Developed a full-stack web application using MERN stack (React, Node.js, Express, and MongoDB)
  - : Designed a modern minimalistic UI including an interactive dynamic customisable 3D model using Three.js
  - : Continuously deployed front-end using GitHub and Vercel
  - : Established a back-end server on a DigitalOcean's VM using pm2 and nginx, and set up a SSL certificate

- **Fresher Friend**   University of Birmingham
  Team Project   *February 2022 – June 2022*
  - **Description**: An interactive full-stack web application that helps freshers (and students in general) studying at the University of Birmingham find their future flatmates and course mates, engage in fun activities, chat, and socialise
  - : Worked on the development of a full-stack web application using PERN stack
  - : Promoted teamwork by distributing tasks managed on a Kanban board among a team of five
  - : Managed a GitLab CI/CD pipeline to continuously deploy the entire stack including a testing stage
  - : Built a RESTful API that retrieves information from a PostgreSQL database

Miscellaneous

- **Languages**: Slovak, Czech, English (C1), Russian (B1)

- **Certifications**: IELTS Academic 8.0

- **Other Skills**: LaTeX, Microsoft Word, Microsoft Excel