

Aleksandrs Larionovs

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EDUCATION

Goldsmiths, University of London

Bs in Computer Science

2022-2025

SKILLS

PROGRAMMING

5000+ lines: Java • JavaScript • CSS •
Typescript • Python
1000+ lines: SQL • C++

FULL STACK

Backend: REST • Flask • NodeJS **Frontend:**
Vue • Android • React **Database:** Postgresql
• MongoDB • ORM • Firebase

OTHER

Technical: Bash • Git • Docker • UI/UX •
CI/CD • GCP • AWS • Terraform • Hetzner •
Webpack
Soft: Detail-oriented • Ownership •
Inter-dept Communication • Languages

OPEN SOURCE

FIRESTORE-SIZE

An open-source JavaScript library designed to estimate the size, in bytes, of Firestore documents. With over 4k weekly downloads, this library facilitates the calculation of document sizes within the Firestore database.

Code: [Github](#)

PROJECTS

Independent IoT Project: Raspberry Pi Integrated with Discord for Automated Image Generation

Created an IoT project involving a Raspberry Pi that automated image generation for a Discord server, displaying generated art on a screen linked to the Raspberry Pi.

Tech Stack:

- Automation: Puppeteer for web scraping and automated image generation
- Backend Framework: Utilized Express for server-side functionalities
- Containerization: Employed Docker for containerization of the application
- Infrastructure as Code: Configured infrastructure using Terraform
- Cloud Services: Deployed on Google Cloud Run, integrated with Google API Gateway
- Hardware Integration: Integrated and synchronized Raspberry Pi with the system

Key Contributions:

- Developed an automated system using Puppeteer to generate images directly to a Discord server.
- Orchestrated server-side functionalities with Express for seamless operation.
- Containerized the application with Docker for efficient deployment and scaling.
- Employed Terraform for infrastructure setup and Google Cloud Run for seamless cloud deployment.
- Successfully integrated hardware components, enabling art display on a screen linked to the Raspberry Pi.

Related Article: [How to Automate Midjourney Image Generation with Puppeteer](#)

Code: [Github](#)

NPM Software Registry: [Package](#)

GATSBY-PLUGIN-GOOGLE-FONTS-WITH-ATTRIBUTES

An open-source Gatsby plugin specifically engineered to efficiently load Google fonts. This plugin simplifies the process of integrating and utilizing Google fonts within Gatsby-based web projects.

Code: [Github](#)

NPM Software Registry: [Package](#)

ARTICLES

The Art of AI: Using ChatGPT and Midjourney to Generate Inspiring Visuals

Exploring the beauty of randomness

[Link](#)

How to Automate Midjourney Image Generation with Puppeteer

Web scraping Discord

[Link](#)

Linking Midjourney with a Raspberry Pi

Did someone order randomized art?

[Link](#)

Shopify Theme Overhaul

Independently executed a complete functional redesign of a Shopify theme, enhancing its capabilities by integrating Stripe payment solutions and utilizing various modern web development tools.

- Developed a full-stack application using React, leveraging Context for efficient state management.
- Engineered serverless JavaScript backend functions to ensure seamless functionality, integrating Stripe's checkout system and Contentful's headless CMS.
- Deployed the application using Vercel, leveraging AWS for robust and reliable hosting.

Tech Stack:

- Frontend: React.js, Styled Components
- Backend: Node.js, MongoDB Atlas, Mongoose
- API Integration: Stripe, SendGrid
- CMS: Contentful

Achievements:

- Improved user experience by implementing modern design practices and user-centric features.
- Successfully integrated payment solutions, enhancing the e-commerce functionalities of the Shopify theme.
- Ensured scalability and reliability through efficient deployment on Vercel and AWS infrastructure.

Code: [Github](#)

Personal Portfolio

Designed and developed a personal portfolio website, utilizing contemporary web development technologies to create an interactive and visually engaging website..

Tech Stack:

- Frontend Frameworks: Next.js, React
- Styling: Tailwind CSS for streamlined and responsive design
- Animation: Leveraged Framer Motion for fluid and engaging animations

Key Features:

- Implemented a dynamic and modern UI/UX design to showcase personal projects and skills.
- Integrated responsive design principles, ensuring accessibility across various devices.
- Incorporated animations using Framer Motion for an interactive and engaging user experience.

Code: [Github](#)

More projects available at: [GitHub](#)