Aleksandrs Larionovs

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EDUCATION

Goldsmiths, University of London

Bs in Computer Science

2022-present (Expected completion: 2025)

City University of Hong Kong

Computer Science Exchange Program

2024-2025

Will represent Goldsmiths as an exchange student at City University of Hong Kong, gaining exposure to diverse academic and cultural experiences while studying at one of Hong Kong's premier institutions.

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 •

ABOUT

An ambitious second-year Computer Science student with a passion for problem-solving and innovation. Actively seeking internship opportunities in 2024 to further expand practical knowledge in software development, coding, and emerging technologies. Eager to apply classroom learning to real-world scenarios and contribute effectively to a dynamic team. Proficient in various programming languages and dedicated to continuous learning. Adept at balancing academic rigor with a proactive approach to personal coding projects and challenges. Committed to leveraging skills and enthusiasm to make meaningful contributions within a professional setting.

PROJECTS

Independent IoT Project: Raspberry Pi Integrated with Discord for Automated AI 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

CI/CD • GCP • AWS • Terraform • Hetzner • Webpack • React Native • Android
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](#)

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](#)

SOCIAL

Hacksmiths - Goldsmiths Tech Society: Active member of Hacksmiths, contributing to organizing events, workshops, and initiatives aimed at fostering community engagement and promoting technological literacy among students.

HOBBIES

Programming: Actively involved in personal coding projects and exploring various programming languages.

Chess: Engaging in strategic gameplay, honing problem-solving and critical thinking skills.

Fitness: Dedicated to maintaining a healthy lifestyle through regular exercise and training.

Rock Climbing: Pursuing an adventurous outdoor activity that requires

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](#)

Collaborative AI Weather Application Project: Real-Time Forecasting for Seamless Weather Insights

(The project is still in development)

In a collaborative effort, our student team embarked on a project aimed at developing an AI-powered weather application to provide users with real-time and accurate weather forecasts. By harnessing the collective expertise of our team members, we integrated various technologies to create a comprehensive solution for weather prediction and visualization.

Tech Stack:

- Machine Learning: Utilized Python for developing machine learning models trained on historical weather data to predict future weather conditions.
- Backend Development: Employed Node.js with Express.js for building a robust backend API to handle user requests and interact with the machine learning models.
- Frontend Development: Leveraged JavaScript and React.js for designing an intuitive and responsive user interface for weather visualization.
- Infrastructure as Code: Configured infrastructure using Terraform
- Version Control: Utilized Git for version control, facilitating collaborative development and code management among team members.

Key Contributions:

- Machine Learning Integration: Collaborated on developing machine learning models in Python, leveraging each team member's expertise to optimize model performance and accuracy.
- Frontend Development: Designed and developed the frontend interface collaboratively using JavaScript and React.js, focusing on usability and aesthetics to enhance the user experience.
- Cloud Deployment: Collaborated on deploying the application on cloud platforms, configuring resources, and ensuring scalability to accommodate varying user demands.
- Database Management: Worked collectively to design and implement database schemas, ensuring efficient storage and retrieval of weather data for analysis and forecasting.
- Project Management: Utilized agile methodologies for project management, conducting regular meetings, and tracking

problem-solving and physical agility.

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 order randomized art?

Link

WORK EXPERIENCE

Tesco PLC, Shop Assistant

Transferable Skills:

- **Problem-Solving**: Handled and resolved customer inquiries efficiently, applying critical thinking to address various issues, a skill directly transferable to debugging and troubleshooting in programming.
- **Team Collaboration**: Worked collaboratively within a team to ensure smooth sales operations, akin to working in development teams on coding projects in computer science.
- **Attention to Detail**: Maintained high standards of cleanliness and organization, showcasing a keen eye for detail, an essential attribute for writing precise and error-free code in programming.

Grand Royale London Hyde Park, Porter/Waiter

Transferable Skills:

progress to ensure timely delivery of project milestones.

Code: Github

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.

- **Adaptability**: Thrived in a fast-paced and diverse environment, demonstrating adaptability and the ability to learn and adjust quickly—skills crucial in the constantly evolving tech landscape.
- **Communication Skills**: Effectively communicated with guests and provided high-quality service, emphasizing the importance of clear and concise communication, an essential skill in programming for conveying complex ideas concisely.

Code: Github

More projects available at: GitHub

REFERENCES

References available upon request