

ALEKSANDR VORONTSOV

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WORK EXPERIENCE

PolyAI

Full-Stack Software Engineer - Platform

Aug 2022 - Aug 2023

London, UK

- Developed user interface (**React**, **TypeScript**, **Python**) tailored towards seamless user interaction, encompassing user generation, user group administration, and API key management.
- Implemented node duplication feature (**React**, **TypeScript**, **Python**) within graphing interface, enabling seamless copy-paste of nodes across user projects resulting in an 95% speed up to transfer nodes between projects.

Visa

Graduate Software Engineer

Jun 2020 - Aug 2020, Jun 2021 - Aug 2022

London, UK

- Developed internal tool to enhance development processes (**Golang**). The tool aimed to increase architecture and analysis by removing manual analysis of complex interfaces and message specifications, decreasing implementation time from 7 days to less than 5 seconds.
- Automated the process allowing for seamless transition from spec to entry point of the Open Visa Net application to define messages for processing.

King's College London - <https://strype.org/>

Software Developer

Feb 2020 - Jul 2020

London, UK

- Designed and implemented initial prototype for a frame-based online editor (**Vue.js**) for micro:bit devices in collaboration with the Micro:bit Educational Foundation and Professor Michael Kölling.

Perfocal

Full-Stack Developer

Oct 2017 - May 2019

London, UK

- Individually managed full development lifecycle, from design to maintenance, across entire platform and infrastructure.
- Set up custom static page templating solution (**TypeScript**, **EJS**) for use in generating static landing pages with more efficiency, increasing user impressions by roughly 200% within 2 months.
- Developed booking infrastructure and platform (**React**, **Node.js**) used for pop-up photography sessions.
- Implemented an automated email and SMS digest system (**Node.js**, **TypeScript**), improving customer-photographer communication and increasing website engagement rate by 78%.

EDUCATION

King's College London

BSc Computer Science, First Class Honours

September 2018 - June 2021

London, UK

- 95% in Software Engineering group project working on a **React Native** application with a client.
- 84% in final year dissertation discussing the implementation of a compiled programming language named Aver. Source code at <https://github.com/a-vorontsov/aver>.

PROJECTS

Weather - <https://github.com/a-vorontsov/weather>

Command line tool written in **Nim** for retrieving the weather forecast for your current location or a given city.

Git Gud - <https://github.com/a-vorontsov/git-gud>

Command line git wrapper, written initially in **Python** then adapted to **Go**, which processes the error output of git commands and returns a more user-friendly message.

SKILLS & INTERESTS

Languages & Frameworks - JavaScript, TypeScript, Node.js, React, Java, Go, OCaml, Python, SQL, PostgreSQL, NoSQL, Redis

Software & Tools - Git, Unix/Linux, Docker, AWS (S3, CloudFront), Webpack, NPM, Jenkins, CI/CD Pipelines