

# Andrey Popov

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Full-stack engineer with a strong command of fundamental languages, including Python, C/C++, and Java, and proficiency in front-end development, cloud computing, and agile methodologies. Having a strong work ethic, I can tackle complex and unfamiliar tasks with responsibility, creativity, and dedication.

## EXPERIENCE

### Software Engineer

Apr. 2023 – Sep. 2023

*Minimax Labs Limited*

*London, UK*

- Developed a B2B desktop app, based on the Eclipse Platform using the Java, SWT, and EMF framework
- Produced a new company website Frontend, responding quickly and patiently to ever-changing requirements
- Delivered a key feature ahead of schedule, solidifying the company's success in an early showcase to a new client
- Created new UI components implementing tools for LNG optimization, patched existing functionality
- Took responsibility for the long-term project and presented result feature in a client demonstration call
- Supplemented source code with comprehensive JUnit tests to ensure system stability

### Undergraduate Teaching Assistant

Oct. 2022 – Mar. 2023

*Imperial College London*

*London, UK*

- Organized and led 17 people workshops about Git, SQL and other software engineering tools
- Tutored Java, Kotlin and Haskell to a group of eleven first-year students, adapting to diverse learning needs
- Performed code reviews and provided personalised feedback, guidance and individual mentorship

### Computer Science Private Tutor

July 2022 – Present

*Self-Employed*

*Worldwide, Remote*

- Developed tailored lesson plans, optimizing Python, C/C++, and Java learning for over 20 students
- Promoted practice by guiding the interactive app coding projects in SDL2 and Pygame Zero graphics libraries

## PROJECTS

### Scaling Extreme Startup | *Python, Flask, React.js, AWS, MongoDB*

Oct. 2022 – Jan. 2023

- Working in a group of six created an educational tool for an MSc course at Imperial College
- Developed a full-stack web application using Flask serving a REST API with React as the frontend
- The product has been successfully applied at the Deutsche Bank CI/CD workshop
- Played a key role configuring AWS Lambda, SQS and DynamoDB into flexible horizontally scalable system

### Project MmmmBoxes | *Python, Flask, JavaScript, Pytest, SQL (Postgres)*

May 2022 – June 2022

- Solved an existing problem in the managing of the package collection at universities
- Configured CI/CD pipeline that tests and deploys Flask Web application on Heroku
- Integrated OCR module for package label scanning and wrote a rich test suite for the database with Pytest
- Worked in a team of four with regular customer interaction for continuous feedback

### SAT: Self-Attachment Therapy Platform | *Python, Flask, JavaScript, Unity, SQLite*

Oct. 2023 – Present

- Developed cross-platform Unity 3D game that helps patients follow the SAT protocol in psychotherapy
- Continuously delivered production Flask website facilitating WebGL game hosted on Apache VPS
- Integrated creation of a humanoid 3D model from an image using AI-enhanced Avatar SDK
- Conducted non-clinical human trials with over 50 participants to improve usability

## EDUCATION

### Imperial College London

London, UK

*MEng in Computing*

*Oct. 2020 – July 2024*

### Ashbourne Independent College

London, UK

*A-Level A\*A\*A\* in Further Mathematics, Mathematics, and Physics*

*Jan. 2020 – July 2020*

## TECHNICAL SKILLS

**Languages:** Python, SQL, JavaScript, Java, C#, C/C++, Kotlin, HTML/CSS, Haskell

**Frameworks:** Flask, React, Pytest, Eclipse EMF, JUnit, Django, Android SDK

**Developer Tools:** Git, Docker, AWS, GitLab-CI, Firebase, Unity, Godot, Apache HTTP Server

**Libraries:** Boto3, NumPy, Pandas, Psycopg2, SDL2, SWT, Google OR-Tools, Retrofit, TKinter, ANTLR