Max Kovalovs

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EXPERIENCE

Software Engineer Intern   Summer 2019
Gearset Limited, Cambridge, UK

- Integrated the app with GitHub using GitHub API. Added PR commit status reporting for in-app CI jobs, branch filtering based on protection status and scheduling jobs in the app via webhooks.
- Worked with Knockout JS and lodash to develop frontend features.
- Implemented row level security for a Postgres database.
- Wrote SQL queries and made schema changes for the production database when working on other backend features.
- Tested my code using C# NUnit and Moq, and Javascript Squire.

Software Engineer Intern   Summer 2018
TNG Technology Consulting GmbH, Munich, Germany

- Developed a REST API with Flask for working with a large set of legal documents.
- Created a continuous integration pipeline with Jenkins, tox and pytest.
- Designed a database to store document information.
- Dockerised the application for easy deployment.
- Developed a front end for uploading documents into the system.
- Acquired experience working in agile teams, writing good tests, presenting and talking to clients.

EDUCATION

Imperial College London, Computer Science   2018 to 2021
Penultimate year student. Finished first year with a first.

PROJECTS

Flight Delay Prediction   kaggle.com/maxkov/kernel73680eb2cf
My solution to predicting flight delays using the Kaggle flights dataset.

- Used Pandas to select, group and edit the dataset which had more that 5 million rows.
- Used scikit-learn to fit a linear regression machine learning model.
- Visualised the data using Seaborn and Matplotlib.

Pool Game   github.com/max-kov/pool
A 2d top-down pool game written in Python.

- Realistic ball collisions based on Newtonian mechanics.
- Code analysis and testing pipelines with CodeClimate and TravisCI.
- 3d ball rotation animation using linear algebra.

The Archived   maxkovalovs.us
Personal blog on programming-related topics.

- Written in RMarkdown (Blogdown).
- Seamless compilation and deployment with TravisCI.
- Hosted on GitHubPages.

EXTRA-CURRICULAR

Progmeistars   2013 to 2016
Took several programming courses at Progmeistars computer science school, where I learned the basics.

- Did courses on OOP and algorithms in Pascal programming language.
- Was a part of a junior IOI team. We participated in many solo and team events. To prepare for Olympiads we had weekly lessons where we've covered computer science topics like big $\mathcal{O}$ notation, sorting algorithms and trees.