KATERINA LOSCHININA

Full-Stack Software Engineer

katerina.loschinina@gmail.com

 kateloschinina
 @kate_loschinina

+44 7766444001
London, UK

I am an enthusiastic and creative software engineer experienced in **shipping large-scale full-stack web applications with high demands for security and performance, developing web infrastructures and engineering data pipelines**. I am passionate about JavaScript, code quality and learning. Looking to challenge myself and grow my skills around state of the art web technologies.

After completing a degree in Applied Mathematics and Computer Science, and spending some years in Investment Banking and then Arts, I came back to tech through Makers Academy, where I grasped thorough knowledge of the best practices, Test Driven Development, pair programming and good taste for code. Post Makers I've been gaining misc full-stack software engineering experience **in various teams of the Financial Times**, working on the award-winning website and one of the fastest news sites in the world.

➤ JavaScript, Preact, React, Redux, Typescript, CSS/Scss, Mustache, Handlebars, Origami
➤ node.js, Express, Typescript, PHP, Python, Heroku, Docker
➤ AWS: Lambda, Kinesis, SQS, SNS, S3, DynamoDB, Aurora, CloudFormation, CloudWatch, IAM
➤ Neo4j, ElasticSearch, Firebase, PostgreSQL, Redis, BigQuery
➤ Webpack, Babel, CircleCI, Pingdom, Graphite, Grafana, Git, Slack integration
➤ Jest, Enzyme, Testing Library, BrowserStack, Mocha, Sinon, Chai
➤ Android (Java, Kotlin), iOS (Swift)

EXPERIENCE

Financial Times   *Apr 2017 - current*
Full-Stack Senior Software Engineer

FT Apps - *Financial Times' mobile application, a web-app with Android and iOS wrappers*
- Being a 10 years old codebase, the apps have lots of legacy code and tech debt. Katerina initiated, negotiated with the product and took leadership over the tech debt initiative whose goal is to improve maintainability, reliability of the codebase and developer experience. The initiative resulted in tackling > 20 major tech debt issues, including several breaches in security, replacing with the appropriate alternatives or rebuilding dependencies on non-maintained packages, migrating components to preact, and 4x increase in test coverage.
- Planned and took part in the migration from Jenkins-run local server to cloud-based solutions such as Heroku and CircleCI.
- Additionally, as part of general team responsibilities, Katerina maintained old and developed new components and features for the app (a JavaScript web-app partially migrated to preact, with iOSand Android wrappers, PHP API layer, using Jenkins, AWS lambdas, Firebase etc.).

Scout Asia - *subscription service delivering news and financial overviews Asian companies (JV start-up by FT and Nikkei)*
- ScoutAsia relies on the data pipeline to provide accurate and timely insights to users, and its performance was starting to affect the quality of the experience. Katerina investigated the source of these issues and implemented a parallelisation solution that reduced pipeline time by 30%.
- Addressing a business need to add information about key employees, Katerina architected a new "peoples" ETL data pipeline.
- In addition, Katerina maintained React/Redux/Typescript frontends and improved their Webpack and Circle CI configurations.

MyFT - *personalised ft.com*
- The MyFT Daily Digest emails were all sent at the same hour, which created a disproportionate load to all systems. Katerina architected a personalisation mechanism that was adjusting send times based on when the user usually opens the email. While doing that Katerina improved the running time of the Daily Digest pipeline from 36 hours to c.20 minutes.
- Katerina created a Python API layer for a Machine Learning initiative that was exploring personalisation of topics recommended to users.

B2B Enterprise Tools - *a platform for the Financial Times' corporate clients*
- Created, deployed and incorporated into ft.com micro-services system a suite of applications allowing corporate FT clients to manage their content licenses.
- Developed 2/5 core apps for the service with server-side rendered React and core experience.
- Built a pipeline optimising the breakdown of the license usage per user for further analytics.

Other
- Actively participated in recruitment and hiring, including acting as a hiring manager for ScoutAsia (with two successful hires), leading both technical and soft skills interviews.
- Created roles.ft.com. Advocated for the FT at career fairs and conferences.
- Winner of the prize for the best reader engagement idea at FT hackathon.
- Line manager.

ING (London)   *2011-2014*

Corporate Finance, Associate

Executed a range of financial deals, which included sell-side, buy-side, strategic and financial advisories.

Credit Suisse (London)   *2009-2011*

M&A Investment Banking, Analyst

Involved in various transactions, including buy-side, sell-side of M&A, debt and refinancing advisory, restructuring, rating advisory, IPOs and IPO advisories; and monitoring of the Technology, Media & Telecoms sectors worldwide.

PROJECTS

Ear of The Universe   *2019*

A multi-sensory, participatory generative art installation; visual-musical instrument that responds to touch with sound and light patterns; created by a team of London-based professionals, where Katerina is a leader and a JavaScript dev

JavaScript, Arduino, Raspberry Pi, Python

- The project was showcased internationally and received funding from several Burning Man community events.
- Katerina [gave a technical conference talk](#) on the topic (at DevFest Siberia, in November 2019) .

7 of Clubs   *2016-current*

A quarterly cultural meet-up, a space for outstanding people from different backgrounds, from art to science and entrepreneurship, to hear and give inspirational talks, network, and share ideas.

Analema Group   *2015-2017*

An art group creating experiences at the intersection between art and technology. Project KIMAexplored the relationships between sound, colour, light, movement and form by creating a synesthesia-like feeling translating sound produced by the audience into AI-generated visuals.

EDUCATION

Makers Academy, London   *Dec 2016 - Mar 2017*

- Coding bootcamp focusing on the best coding practices, such as clean code, TDD, Software Craftsmanship and using "learning how to learn" as a main mantra.
- Ruby, Ruby on Rails, Sinatra, PostgreSQL, JavaScript, node.js, React, Rspec, Jasmine, Mocha, Chai.

Lomonosov Moscow State University   *2003 - 2008*

Department of Computational Mathematics and Cybernetics

- Areas of focus: Optimal Control Theory, Financial Mathematics, Mathematical Methods in Economics, Statistical Analysis, Methods of Optimisation, Risk Theory and Quantitative Financial Models.
- Studied programming languages C, C++, Visual C, Pascal, Assembler, Matlab and R, and the theory of numerical analysis, algorithms and code developing.

INTERESTS

Yoga, meditation, hiking, philosophy and building interactive LED installations.