

# FAROUK FAIZ

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## EXPERIENCE

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**360Learning (Paris) - Software engineer intern** Mar 2022 - Aug 2022 (6 months)

**Uber (Amsterdam) - Software engineer intern** Mar 2021 - Aug 2021 (6 months)

- Created a new service to monitor our services' failovers, led 3 failover drills, investigated and mitigated issues with stakeholders that had trouble detecting DNS changes which led to reducing failover time from 15min to 2min.
- Investigated and fixed a metrics issue that was blocking the migration of our stakeholders to the latest version of our Golang SDK. Proceeded to lead the migration and mitigate multiple issues along the way.
- Added support for Uber's custom authentication solution in my team's service which complies with PSD2 directives, updated dozen of dependencies to fix CVEs etc... *Stack: Java/Golang/Python*

**JetSoft (Remote) - Software engineer (Freelancer)** Aug 2020 - Sep 2021 (13 months)

- Develop, deploy and maintain a secure and robust application for visualizing streams of data collected by different sensors through customizable dashboards. *Stack: React/NodeJS with Typescript*

**Klee Group (Paris) - Software engineer intern** Aug 2020 - Feb 2021 (6 months)

- Design and develop an application in *Typescript* using *p5.js* to visualize software in an interactive map/dashboard similar to what can be done in data visualization tools.

## SKILLS

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<b>Programming languages</b>	Python, Javascript, Typescript, Java, Golang, C/C++, Scala, Rust.
<b>Machine Learning</b>	Keras, TensorFlow, SkLearn, Pandas, Numpy.
<b>Web Development</b>	NodeJs/Express, Vue, React, GraphQL, Django, Webpack, Spring boot.
<b>Tools</b>	AWS, Docker, Kubernetes, Spark, Kafka, Redis, Databases.
<b>Languages</b>	French(Fluent), English(Fluent), Arabic(Native), Spanish (Elementary).

## PROJECTS

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**ScrapperIO** Apr 2021 - Aug 2021 (5 months)

- ScrapperIO is a solution that lets users program recurrent scrapping jobs and get alerted depending on the result of the scrapped content (e.g. get alerted if the price of an item on a store decreases).
- Designed a scalable architecture for the application, implemented key parts, reviewed code and led a team of 3 people into a not yet public proof of concept. *Stack: React/NodeJS with Typescript.*

**LibAFL** Oct 2021 - Feb 2022 (5 months)

- Contributed to the open source fuzzing library LibAFL. *Stack: Rust, C, Python*
- Added support for python bindings for the library and helped with implementing the backtrace crash deduplication feature.

## EDUCATION

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**Eurecom** (Data Science and Engineering track) Sep 2019 - Sep 2022

- Cloud & distributed systems
- Systems security
- Operating systems architecture
- Database management system implementation
- Machine learning & Deep learning
- Advanced statistical inference
- Image processing and encoding
- 3D and virtual imaging

**IMT Atlantique** (Engineering degree in computer science) Sep 2018 - Sep 2022

**Mathematics preparatory classes (MP/MP\*\*)** Sep 2016 - June 2018

## ACHIEVEMENTS

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**Ocean hackathon finalist (Winner of Toulon's edition)** Oct 2019

- Participating for the second year in Ocean Hackathon, won with my team of four members the Toulon's edition by developing, for Ifremer, in less than 48h a deep learning model for classifying corals with a 92% accuracy.

**AWS Security challenge @Uber** Oct 2019

- During my internship at Uber, participated at the two AWS security challenges organized by Amazon for Uber employees. Ranked first with my team in the first challenge and second with a different team in the second challenge.