

# Fotios Alexandridis

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## EDUCATION

### University of Zurich

*PhD in Computer Science and Empirical Software Engineering*

Zurich, Switzerland

*Sept. 2025 – Sept 2029*

### Aristotle University of Thessaloniki

*MEng in Electrical and Computer Engineering, graduated with honors, grade 8.75/10*

Thessaloniki, Greece

*Oct. 2019 – April 2025*

### Panhellenic Exams

*Scored 19003 out of 20000 points*

Greece

*June 2019*

## EXPERIENCE

### PhD Student @ ZEST

*UZH*

Sep. 2025 – Sept. 2029

*Zurich, Switzerland*

- Doing research on Empirical Software Engineering.

### Software Engineering Intern

*Tesla*

Sep. 2023 – Feb 2024

*Athens, Greece*

- Worked in developing and upscaling (3-20x) in house tools in MATLAB for large scale design of powertrain parts.
- Was part of a fast paced environment, collaborated with US, India and China timezones.

### Autonomous System Engineer

*Aristotle University Racing Team Electric & Driverless*

July 2021 – August 2022

*Thessaloniki, Greece*

- Worked on internal mapping systems for an autonomous electrical racecar, plus onboard linux system, hardware sensor setup & wiring and simulations.
- Competed in 3 competitions in summer 2022: FSAta, FSAustria, FSEast.

### Autonomous EV Scrutineer

*Formula Student East*

Aug 2023 – Aug 2023

*Hungaroring, Hungary*

- Performed safety checks on Formula Student racecars.
- Worked with low & high voltage electrical systems, and autonomous systems.

### Lead Backend Developer

*CoolSchool*

Nov. 2021 – Nov. 2022

*Thessaloniki, Greece*

- Lead backend/reliability engineer, software architect on NodeJS backend CMS developed from scratch.
- Co-developer of React Native Android (7th trending on Greek Educational Google PlayStore) and iOS mobile App.

## PROJECTS

### Autonomous Racecar State Estimation | *C++, ROS2, Python, Matlab, Control Systems* Sep. 2021 – Mar. 2022

- Implemented real time robust ROS2 node for racecar state estimation, based on the Extended Kalman Filter.
- Created custom visualization and evaluation scripts to evaluate progress in past data and simulations.
- Contributed in vehicle top speed in unknown track navigation to go from 15km/h to 25km/h.

### Thesis Work | *Python, Image Processing, Machine Learning, CARLA Simulator*

Apr. 2023 – Apr. 2023

- Titled "Design and development of a low cost end to end autonomous navigation system for consumer vehicles".
- Proposed a novel, low cost methodology to quickly iterate on end to end models for autonomous driving.
- End to end experimental simulator setup, from dataset gathering to model training to real time evaluation.

### Distributed Crypto Oracle Microservices | *Python, AWS, Linux, Redis, Docker, Git*

Sep. 2022 – Feb. 2023

- Total processing time < 100ms shared across microservices, communicating via redis, 99% availability.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Typescript, C, C++, SQL, Rust, Go, Java, HTML/CSS, Dart, Swift, Bash, MATLAB

**Frameworks:** React, Node.js, Flask, Material-UI, FastAPI, Flutter, Express.JS, Next.JS, Mongoose, Hardhat, Fiber, React Native, SwiftUI

**Developer Tools:** Git, Docker, Kubernetes, Google Cloud Platform, Amazon Web Services (AWS), VS Code, Vim, Heroku, Digital Ocean, Vercel

**Libraries:** pandas, NumPy, matplotlib, PyTorch, Tensorflow, scikit-learn + numerous others