

Vinko Mlačić (M.Sc.)

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-Website-

-LinkedIn Profile-

-GitHub Profile-

-Stack Overflow-

SUMMARY

Passionate software engineer with an advanced degree and +3 years of experience, driven by a strong interest in product development. Seeking exciting opportunities to tackle complex challenges and make meaningful impact using technology.

SKILLS

Python, Django (Web and DRF), JavaScript (vanilla, Node, React), C/C++, Java (Spring, JEE), SQL (T-SQL), Rabbit MQ, Docker

EXPERIENCE

- **Freelancing** UpWork
Software Engineer - Python, C, JS 2023 (weekends)
 - Created clean and efficient code for processing IoT data and uploading it to integrated APIs.
 - Developed an OpenWRT gateway program in C which collected sensor data and made them available through customized Modbus RS485 slave. Built an admin interface in React for the same router. All fit on 12 MB of flash storage. Set up OpenVPN server for the OpenWRT router.
- **Chino.io** Trento, Italy (Remote)
Software Engineer (Python / Django) Feb. 2021 - Present
 - Proposed a solution for a new consulting product that significantly increased the efficiency of the team, allowing the company to handle 250% more projects with minimal hiring.
 - Prototyped the consulting product using Google Sheets and Google Apps Scripts for report generation in 2 days.
 - Coded and tested the consulting product in Django framework achieving unit test coverage of 86%.
 - Collaborated on development, maintenance, releases, testing, and tech support for over 10 Python and Java projects.
 - Held and collaborated in cyber security consulting workshops with 5 customers and curated cyber security checklists for the company which helped me give significant input on the product.
- **INRIA (Research institute)** Rennes, France
Cyber Security Researcher (Python) Apr. 2020 - Aug. 2020
 - Implemented Python Scripts for collecting and analyzing various threat data from the internet. Normalized and stored the data in MongoDB for processing by ML algorithms. Created a React page for data visualization.
- **SedamIT** Split, Croatia
Software Engineer (Java) Jul. 2018 - Aug. 2019
 - Collaborated on architecture design for performance optimization strategies of existing monolithic application which improved throughput by 80 times compared to existing solution.
 - Built the new optimized services that leveraged RabbitMQ message queue for improving the availability of crucial features of the product.
 - Developed complex SQL queries and more than 30 stored procedures in T-SQL that replaced ORM code for core features.

EDUCATION

- **EIT Digital Master School** France and Finland
M.Sc. in Cyber Security *Sep. 2019 – Jun. 2022*
 - **Thesis:** Data protection regulation ontology for compliance. Developed an ontology in OWL aimed at streamlining the cyber security consultation process when dealing with cyber security compliance (mainly GDPR).
 - **University of Turku, Finland:** The second university of my master double degree where I specialized in Network Security.
 - **University of Rennes 1, France:** The entry year of my double degree where I was taught computer science with focus on cyber security. Graduated with highest honors (*mention très bien*).
- **University of Split** Split, Croatia
B.Sc. in Computer Engineering *Oct. 2015 – Jun. 2019*
 - **Thesis:** Management of LoRaWAN sensor nodes. Built code both for the sensor node and the CLI tool which coordinated voltage, transmission periods, frequency and other parameters for a network of sensor nodes deployed on The Things Network™.

VOLUNTEERING AND INTERESTS

- **Mentor at Beyond 2030 Hackathon in Turku:** Mentored high school students in an entrepreneurial hackathon.
- **EIT Digital Student Ambassador:** Presented on webinars. Helped prospective students with questions about application to EIT Digital Master School.