Dimitar Banchev

🌐 https://dbanchev.me
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Work Experience

01.06.2024 – 30.09.2024   🔖 **Bachelor Thesis (Static Analysis of Go code)**
at Mercedes-Benz Tech Innovation GmbH and Ulm University of Applied Sciences

- Utilized data structures, used by compilers such as: ASTs, SSAs, CFGs
- Analyzed the detection gaps of an open-source software (**gosec**).
- Implemented a rule for the detection of hardcoded nonces in gosec

01.12.2023 – 31.05.2024   🔖 **Internship**
at Mercedes-Benz Tech Innovation GmbH and Ulm University of Applied Sciences

- Learned about the different types of vulnerabilities that can exist in applications and exploited them
- Developed backend applications(including REST APIs), in car applications, small CLI and Desktop applications (using the QT framework) in Golang

01.08.2022 – 15.09.2023   🔖 **Working Student** at Mercedes-Benz Tech Innovation GmbH

- Developed a vulnerable full-stack web application in Java using the Spring framework, for the purpose of security testing
- Developed many example applications, used for internal testing
- Contributed to FOSS project (**SecHub**)
- Deployed applications to local clusters using Kubernetes, and Docker

01.07.2019 – 1.09.2019   🔖 **Internship - Computer Repair and Test Technician** at Boiko Petrov

- Diagnosed systems of customers for software and hardware problems.
- Installed/Changed hardware, software, and operating systems of customers.

Education

20.09.2020 – 15.10.2024   🔖 **Bachelor's Degree in Computer Science (in English)**
at Ulm University of Applied Sciences
Distributed Web based systems, Pentesting, Software engineering, Web development, Algorithms and Data structures, OOP, Databases, Game Dev.

- Was part of a team that developed an Android application for a company.
- Completed multiple pentesting laboratory exercises
- Collaborated with a team to develop a game written in C++

Education (continued)

2015 – 26.06.2020   📑 **System Programming at Vocational School**
at M. V. Lomonosov, Bulgaria
C++, C#, Assembly, Computer Networks, OOP, Hardware Knowledge
Received a certificate of professional qualification, with a profession: System
Programmer, specialty System Programming after graduation.
Participated in two **Erasmus** projects in Italy, each lasting 2 and 3 weeks.

Skills

P. Languages: 📑 Go, Bash, Python, Java, C#, C++, Lua, SQL

OS: 📑 Linux, Linux Server, Windows

Databases: 📑 MariaDB, MySQL, SQLite

Web-Dev: 📑 HTML, CSS, JavaScript, React, React Router, Caddy Web Server

Frameworks: 📑 Gin, Spring Boot

Miscellaneous: 📑 Git, Docker, Kubernetes + Local Clusters (k3s, Microk8s, Minikube, ...) Helm, Hugo,
Code flow analysis, Knowledge in CWEs/OWASP, Android, OSI layers and computer
networks, Wireshark, Media production, Server hosting

Languages: 📑 *Bulgarian*: Mother tongue   *English*: B2   *German*: A2

References

📑 **References from Mercedes-Benz Tech Innovation GmbH**

Certifications

2024   📑 **The Frontend Developer Career Path - Scrimba**
Certificate Details: https://dbanchev.me/redirect/scrimba-cert

2019   📑 **NDG Linux Essentials & Unhatched courses at Cisco Networking Academy**
Unhatched: https://dbanchev.me/personal/certs/ndg-linux-unhatched.pdf
Essentials: https://dbanchev.me/personal/certs/ndg-linux-essentials.pdf

📑 **Learn Java and the Command Line**
Certificate Details:
https://www.codecademy.com/profiles/expp/certificates/d3f89367b558583e361640f778191345

📑 **Learn the Command Line**
Certificate Details:
https://www.codecademy.com/profiles/expp/certificates/c87ba0541f8be78bc2f4ba1128233f6f

2017   📑 **Programming Basics with C#**
Certificate Details: https://softuni.bg/certificates/details/49982/cd016d3b

📑 **Application Programming and Embedded Systems Level 1 and 2**
Worked on a task to create a smart flower pot. (Monitor humidity, automatically water plant,
communicate sensor data through LoRaWAN).