Catalin Alexandru Mihalache

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EDUCATION

SWANSEA UNIVERSITY
BSc in Computer Science
October 2018 - July 2022 | Swansea, UK
- Graduated with degree: Second Class Honours, Divison One.
- Coursework included Objected Oriented Programming, PHP, Haskell, White and Black Box testing,researching and analyzing the impact of emerging technologies on society.
- Developed time managing, problem-solving and critical thinking skills.

ION C. BRATIANU
National College
September 2014 - July 2018 | Pitesti, Romania
- Mathematics-Computer Science profile.
- Worked with high-level algorithms of graphs, dynamic programming in C++ which helped me in gaining relevant competence in IT about computation and optimisation.
- Advanced coursework about probabilities, experience in high-level algebraic structures, knowledge about integrals and derivatives, which expanded my analytical skills.

VOLUNTEERING

TECHNOCAMPS
November 2019 - May 2020 | Swansea, UK
- Worked in delivering workshops for kids and share my passion for technology, as I believe a better world can be created through it.
- Taught programming through Scratch and Python, and not only that, but also stuff about mathematics, physics, and biology.

V.P. OF ROMANIAN SOCIETY
February 2019 - July 2022| Swansea, UK
- Organized events for international Romanian students to make their university experience more enjoyable and create friendships.

SKILLS

TECHNICAL SKILLS
Strong:
Java • Python • JavaScript • Kibana •Git
Familiar with:
CSS • HTML • Express •EJS • LUA • SQL • MongoDB • Haskell • Splunk • Linux • C++

WORK EXPERIENCE

SOPHOS GROUP | Software Engineer Intern
August 2020 - July 2021 | Abingdon, UK
- Involved in the Windows FastTrack Team that was responsible for handling issue escalations from customers. In particular, I was part of a project that worked on automating the analysis of logs that are generated from a new monitoring capability Sophos rolled out to their Next Generation endpoints.
- Programmed a feature on our antivirus that automatically solves the issues for each endpoint and drastically reduces the Support team time spent on solving each issue from sometimes months, to an almost instant solution.
- Developed an AWS lambda function that connected the endpoints from our AWS S3 bucket to our Python code so the endpoints could be scanned for issues they might have.
- Created a Kibana dashboard that reduces the logs analysis time at the end of each day from **2 hours** to nearly **10 minutes**.
- Created various AWS dashboards which helped my team in seeing the trends in problems that occurred on our endpoints.
- Took the lead in showcasing the project in the weekly meetings and at the end of each sprint to other teams.
- Part of the high level Support team where I solved advanced issues of our international customers.
- Technologies I have used throughout the year included C++, LUA, Python, PowerShell, JSON, AWS, Robot framework, data analysis tools like Kibana and Splunk.

SWANSEA UNIVERSITY | Lab demonstrator
October 2019 – July 2022 | Swansea, UK
- I helped students understand their weekly lab sheets, offered guidance to help them complete their tasks and also found out the cause of hard to find bugs that they came across and were beyond their capabilities to fix themselves.

TECHNICAL PROJECTS

CAR PRICE PREDICTION | Github
October 2021 - June 2022 | Swansea, UK
- Built a Python web scraping project which predicts and analyzes car prices.
- Used BeautifulSoup, Request, Linear Regression, Extreme Gradient Bosting, Random forest, Artifical Neural Network.

SORTING VISUALIZER | Website, Github
August 2022 | Pitesti, RO
- Built JavaScript application for visualizing algorithms.
- Implemented Bubble Sort, Insertion Sort, Heap Sort, Quick Sort.

TWITTER-BOT | Github
September 2022 | Pitesti, RO
- Built a bot that tweets, retweets, and likes programming tweets.
- Used Twitter Developer API with Python.