

Catalin Alexandru Mihalache

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EDUCATION

SWANSEA UNIVERSITY

BSC IN COMPUTER SCIENCE

October 2018 - July 2022 | Swansea, UK

- Year 1 average : 79% | Year 2 average: 76%
- 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.

GOOGLE HASH CODE PARTICIPANT

February 2020 | Swansea, UK

- Together with my team, we developed a solution that scored **22,905,320** points, and we were in the top **28%** of teams worldwide.
- After the competition, in the Extended Round, I made a solution that scored **26,581,754** points, which placed us in the top **17%** of teams worldwide for the Extended Round.

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.

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 - Present | Swansea, UK

- I help 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.

SKILLS

TECHNICAL SKILLS

Strong:

Java • Python • C++ • Kibana • Git • Agile development

Familiar with:

AWS • LUA • SQL • Haskell • Prolog • HTML • Black Box • White Box • Splunk • Assembly programming • Embedded systems • Linux

SOFT SKILLS

Fast learner • Great communicator • Initiative
Team-work • Attention to details

REFERENCES

Emile Kenning,

Senior Software Engineer, Sophos Group plc

Email: emile.kenning@sophos.com

Dr.Daniel Archambault

Senior Lecturer, Swansea University

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