MARIAN HORGAN

SOFTWARE ENGINEER

CONTACT DETAILS

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SKILLS

Programming Languages:
Python,
Intel Microcode,
C,
Java

Tools and Frameworks:
Git,
Jenkins,
VSCode,
Googletest,
Docker,
Sphinx

Project Management:
Agile / Scrum,
Jira,
Miro

Web Development:
HTML,
CSS,
Flask,
MySQL,
Javascript

Soft Skills:
Leadership,
Communication,
Presentation,
Teamwork

PROFILE

Motivated Software Engineer with 6+ years of industry experience adept in all phases of software development and product life cycle. Hands-on experience in developing, implementing and executing projects for complex encryption systems in a $60+ billion annual revenue multinational. Strong skills include low level code design, debugging, documentation and code reviews.

PROFESSIONAL EXPERIENCE

Firmware Development Engineer, Intel Ireland
Sep 2018 - Present
- Worked as part of the firmware team on QuickAssist Technology (QAT) for acceleration of security and compression.
- Led the security service team through multiple releases and exceeded pass rate criteria on all milestones.
- Engaged with customers, working closely with them to understand the requirements. Delivered a high quality product ahead of time that was part of the innovation that won the 74th Emmy Tech Award.
- Created low level firmware designs and worked with Architects to close any gaps, whilst adapting to changing requirements.
- Responsible for the planning and estimation of new features, and identified risks in the plan while also providing mitigation strategies.
- Developed many features in firmware with fixed deadlines, using Intel's proprietary language in a test driven development approach.
- Created test plans and ran validation test suites. Debugged issues with the integration team and implemented timely fixes.
- Proposed innovation ideas and developed proof of concepts
- Collaborated across teams and geos for firmware tasks, feature integration and innovation work.
- Interviewed incoming applicants for firmware engineering roles.
- Mentored new hires and interns within Intel Corporation.

Software Engineering Intern, Intel Shannon
Mar 2017 - Aug 2017
- Learned how to develop firmware as part of the QAT team.
- Created bash scripts to automate the C++ simulation tests.
- Updated the API format to adhere to Linux Kernel conventions.
- Adapted the test framework for JSON file input to improve efficiency.

Software Engineering Intern, Intel Shannon
Jun 2016 - Aug 2016
- Worked as part of the project management team focusing on IoT.
- Created a dashboard generator using python scripts to transform excel spreadsheets into presentable slides
- Shadowed an engineer in IoT automotive development.

Software Engineering Intern, Intel Shannon
Jun 2015 - Aug 2015
- Installed linux and set up boards in the lab.
- Created virtual machines and containers.
- Tested dynamic resourcing of containers for scalability.

EDUCATION

BSc in Computer Science with Web Systems Engineering,
University College Cork
Sep 2014 - May 2018
- Achieved 2H1 Second Class Honours.
- Subjects studied include Algorithms and Data Structures, Artificial Intelligence, Network Security and Web Development.
- Final year project on evolving interesting patterns in Conway's Game of Life using a genetic algorithm with Python.

PROJECTS

Concussion Headband Wearable — Tech Lead
Jun 2021 - Jun 2022
Joined the winning team from a hackathon, in collaboration with Love of the Game, on developing a desirable wearable that tracks head impact to empower athletes as they perform. My responsibilities included developing a proof of concept and creating a website. I collaborated with team members on the business, user experience and impact of the product as we aimed to turn our idea into reality. I presented our project at a demo event in London, December 2021.

Raspberry Pi Plant Monitoring — Personal Hobby Project
May 2021 - Jul 2021
Took part in the Grow Lab Challenge 2021 by using a raspberry pi and sensors such as a BME280, soil moisture sensor and camera module to monitor seedlings. I shared my progress with the community and presented my plant monitoring project at the Short Stack Conference 2021.

CERTIFICATIONS

OpenEDG Python Institute: Programming with Python Professional Certificate
Feb 2024

Udemy Practical Leadership Skills
Dec 2023

Intel Cloud Fundamentals
May 2023

Imperial College WE Innovate Entrepreneurship Programme
Jan 2022 - Mar 2022

MIDAS Communicating Effectively Training
Jun 2021