

SEBASTIAN GABRIEL SAVU

The Metalworks, 50 Aston Webb Boulevard, Birmingham, B15 2GG

+447388139771 / +40761665443

armenz_savu@yahoo.com | www.linkedin.com/in/sebastian-gabriel-savu | <https://sgsavu.com>

SUMMARY:

A hard working, ambitious, final year Computer Science student at the University of Birmingham. Verified competences in multiple programming languages, capable of cooperating in a team, possessing great insight into the business world and also a talented problem solver. Currently seeking an opportunity to further enhance and improve my proficiency and obtain a significant working background within the IT and Technology sector.

EDUCATION

SEPTEMBER 2020 – JUNE 2022

BSC COMPUTER SCIENCE, UNIVERSITY OF BIRMINGHAM

- ◆ Currently on track for 1st
- ◆ Relevant modules include: Human-Computer Interaction, Advanced Networking, Computer Vision and Imaging, Mobile and Ubiquitous Systems, Artificial Intelligence, Functional Programming, Security and Networks, Software Engineering and Professional Practice, Systems Programming in C/C++

OCTOBER 2017 – JUNE 2019

DIPLOMA OF HIGHER EDUCATION, LANCASTER UNIVERSITY

- ◆ Relevant modules include: Software Development, Software Design, Databases, Computer Networks, Human-Computer Interaction, Operating Systems, Advanced Programming, Information Systems, Creative Technology, Digital Systems, Fundamentals of Communication Systems

SEPTEMBER 2013 – JULY 2017

ROMANIAN DIPLOMA DE BACALAUREAT, "GRIGORE MOISIL" NATIONAL COLLEGE OF COMPUTER SCIENCE

- Graduated top of the class for 3 consecutive years
- A Levels equivalent of A*AA (9.3/10 final average): Advanced Mathematics (10/10), Computer Science (8.7/10), Romanian Language and Literature (9.3/10)

EXPERIENCE

AUGUST 2021 – AUGUST 2021

BACKEND SOFTWARE ENGINEER INTERN: PYTHON – ZEZERO LTD

- Worked with the team at Zezero to develop a solution that estimates the average CO2 emissions of a business based on the items imported from different parts of the world and the transport type used.
- Designed and implemented an API based solution which determines a shipment route between any 2 points in the world using a mix of the Google Maps API, Searoutes API and haversine formula, also indicating the carbon footprint associated to the journey.
- Developed a solution which underpins the average CO2 emissions a business would emit would they import a certain item or produce from around the world to one of their warehouses using the international yearly public ledger of items and produce.

FEBRUARY 2021 – MAY 2021

SYSTEMS DEVELOPER: JAVA – UNIVERSITY OF BIRMINGHAM

- Worked in a team of 6 to design and develop a 2D java platformer racing adventure game - ELUSIVE.
- Assumed the role of systems engineer creating majority of the systems implemented by the game: random map generator, mini-map tracker/progress bar, inventory system, in-game player UI, animation handling, enemy interaction, player health system, powerups, spectator screen and many more.
- Assumed the role of level designer creating and implementing interactive segments with various themes and various challenges for the players to face using Figma to plan and sketch.
- Responsible for the art direction of the game and the assets used creating a distinct style and pleasant visual aesthetic for the game using itch.io and Photoshop.
- Also assumed the role of branch master which assured a continuous and seamless integration of parallel game aspects into the main branch using GitLab.

SEPTEMBER 2020 – DECEMBER 2020

PROJECT LEADER: BALSAMIQ, FIGMA – UNIVERSITY OF BIRMINGHAM

- Worked in a team of 8 to design a mobile application which provides a matching service between people self-isolating as a result of a positive COVID test or needing to shield because of a health condition/old age, and volunteers who are willing to provide support by buying groceries and completing a contact free delivery.
- Assumed the role of project leader, coordinating the team through the design process, assigning and managing roles based on preference and proficiency and establishing a consistent medium of communication between members throughout the project.

DECEMBER 2019 – AUGUST 2020

SOFTWARE DEVELOPER: FLUTTER AND DART ANDROID APP – SELF-EMPLOYED

- Independently designed and developed a mobile android application that allows users to redeem rewards such as gift cards and vouchers with virtual currency earned from watching 15-30 seconds ads from Google Ad Mob.
- Used Flutter and Dart for programming, Figma for designing the UI and Google Firebase for the database.

NOVEMBER 2019 – JANUARY 2020

UX DESIGNER: AXURE RP – SELF-EMPLOYED

- Designed the user interface and underlying structure for a mobile Android application that connects people with the scope of securing a flat and reducing the struggles of finding a new home.

NOVEMBER 2019 – JANUARY 2020

SOFTWARE DEVELOPER: FLUTTER AND DART ANDROID APP – SELF-EMPLOYED

- Independently developed a mobile android health application designed to act as a companion for patients diagnosed with diabetes. The scope of the app was broadened during development to a more general-purpose health app that will benefit all individuals suffering of any condition.
- Used Flutter and Dart for programming, Figma for designing the UI and Google Firebase for the database.

SEPTEMBER 2018 – FEBRUARY 2019

SOFTWARE DEVELOPER: JAVA – LANCASTER UNIVERSITY

- Worked in a team of 5 developers to design, create and polish a fully working Java game (**ALIENATION: TWIN-STICK SHOOTER**) using the JSFML library.
- Tasked with the map design, implementation and testing sector of the game
- Thoroughly implemented 6 unique individual maps each with a different theme/environment that procedurally immerse the player into the game world
- Created and developed a Tile Grid System which offers modularity, flexibility and versatility when constructing or revisiting the maps.
- Also implemented and refined player health system which represented one of the core functionalities of the game and required special attention.
- Conducted user testing and gathered feedback to solve faults, bugs and increase overall player engagement and enjoyment with the game.

JULY 2017

SOFTWARE DEVELOPER INTERN: DEXION STORAGE SOLUTIONS ROMANIA

- Worked in a team of 4 software developers on a very sensitive and critical project with the scope of upgrading the company's current nucleus business software EPICOR to a new version
- Tasked with identifying core differences and updating/removing functionalities in order to ensure a safe transition to the new branch
- Gained relevant teamwork skills as workload was distributed equally and communication was critical in order to ensure a safe stable working branch for the employees that required the new version immediately
- Submitting patches and versions with bugs would have been fatal for the business's capital so working under pressure was a skill that was tested frequently also because of the time constraint.

FEBRUARY 2017 - MAY 2017

GAME DEVELOPER: UNITY – HIGHSCOOL FINAL YEAR PROJECT

- Independently designed and built a first-person atmospheric horror game in the Unity3D engine using JavaScript and C++
- Relevant scripts and pieces of code include: turning a flashlight on/off, event triggers/sensors, player and enemy health system, firearm implementation and projectile system.
- Used the Unity3D design assets to create a mountainous region map that will immerse the player into the thrilling atmosphere of the game implementing techniques such as reduced depth of vision due to mist, proximity sounds, lighting effects that engage the player with the game etc.

RELEVANT SKILLS

- **Competent knowledge across a variety of programming languages:** Java, Python, C, C++, Flutter Dart, JavaScript, Node.js, HTML, CSS, SQL, SQLite, MySQL, C#
- **Proficient using business related software and tools:** Oracle VM, Vagrant, Git/GitHub, EPICOR
- **Teamwork:** Core skill obtained from the many programming projects and internships I have been involved in requiring interdependency and communication to ensure concise and accurate results.

- **Fast-learner:** Became familiar with Java and C on a professional level from scratch in the span of 3 months with little help, being able to successfully finish multiple programming assignments involving those languages ahead of time with exemplary results.
- **Problem solving and analysis:** Developed while participating in numerous chess competitions and contests and also by playing puzzle and logic games in my free time that require a significant amount of understanding and perception.
- **Curious, innovative, creative:** Was introduced to hiking from a young age which opened new horizons such as exploring and discovering, key aspects building towards ambition and keenness. Passionate about constructing LEGO figurines as a child, creating different custom-made toys, studying origami in primary school, allowed me to flourish my creativeness and inventiveness
- **Organized and punctual:** Practicing martial arts for 7 years gave me the possibility to become a coordinated and dependable person. Swimming has also helped me become self-disciplined and prudent with everything I do.
- **Business awareness:** Being a member of the ENACTUS Lancaster Society for 1 year, participating in numerous workshops/events about starting your own business, earnestly reading business newspapers and magazines, watching the news for market updates, and also my eagerness to start my own business thought me key aspects about the capital world in which we live in.
- **Passionate about IT:** Developed this passion while visiting numerous technology conventions and conferences which were showcasing new devices, gadgets, virtual reality headsets, systems and features. Passionate about the smart world we live in and excited about what a futuristic life would look like due to artificial intelligence and augmented reality.

OTHER SKILLS AND INTERESTS

- **Music Production and Audio Engineering:** Passionate about creating hip-hop music and presenting a keen interest in audio engineering and sound design. Interest in DAW's (Digital Audio Workstations), analog and digital mixing and mastering consoles. Aimed as an off-profession.
- **Art Collective:** Willing to establish (together with a colleague from Lancaster) an art collective which would bring together people from different aspects of the art field: music, drawing, literature and cinema. Here is a sneak peak: <https://tenzze.com>.
- **Cryptocurrency Supporter:** Investor in opportunity for mankind to develop. Actively researching new technologies being developed in the decentralized blockchain environment and supporting those that I believe will revolutionize humanity and every day life.

References available upon request