**Sam Blackmore**

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**EDUCATION**

**2009 – 2015, Newcastle University, UK, MEng Honours Electronic Engineering with Foundation Year and Industrial Placement**

Degree Classification: First Class (≈ 3.7 GPA)

* Group Dissertation (MEng) – Programming of a Micromouse capable of navigating and mapping a maze with the aim of finding the quickest route to the centre. A real-time software simulation was written to test maze-solving algorithms. A PIC microcontroller was used to control the mouse.
* Individual Dissertation (BEng) – Design and construction of an autonomous tomato-picking robot. The BeagleBone Linux computer was used to acquire and analyse images from a webcam. Red objects were located and driven towards for picking.

**WORK EXPERIENCE**

**February 2016 – Present, Intel Security, Montreal, Canada**

* Android Team, September 2016 to present:
  + Defined a multi-container Docker application for Android testing.
  + Each container runs its own app or service, such as a redis database for storing results, a Python Flask app that listens to GitHub webhooks and triggers tests when a pull request is made, a Python Celery app that runs asychronous tasks on a pool of workers, a scheduling service that runs Celery jobs based on a crontab, and an nginx server for serving the webpages generated by Gradle when running unit tests.
  + Wrote shell scripts to automate setup once inside the container, including setting the backend through host files, installing certificates, and installing APKs.
  + With the Docker setup complete, I will now be focusing on writing instrumentation tests for the True Key Android app using the Espresso test framework by Google.
* CI & Tooling Team, July to September 2016:
  + Developed a single page application for monitoring QA metrics such as defects opened vs. closed, backlog trend, number of new builds required during phases of sprint etc.
  + Server written in Python Flask with schedulable tasks that collect data from APIs of internal tools. Front-end interface and data visualisation in JavaScript using HighCharts. Designed various views and panels using Bootstrap components with a templating engine.
* Desktop Team, February to July 2016:
  + Tested reliability and functionality of password management software. Responsibilities included writing test plans to validate new features based on design documents, black-box and white-box testing, regression testing, and writing up and tracking bugs.

**September 2015 – January 2016, Freelance, Montreal, Canada**

*3 Words*

* Social app where players take it in turns to add 3 words at a time to a communal story. Android application written natively in Java. Server-side PHP handles queries to the MySQL database which stores tables of users and posted content.
* *https://play.google.com/store/apps/details?id=com.sam.story*

*Get to the Bottom!*

* Minimalist puzzle game with emphasis on lightweight, responsive design. Graphics drawn natively at any screen size or aspect ratio. Challenges are encoded as strings allowing them to be loaded in a single game room behind transitional animations.
* *https://play.google.com/store/apps/details?id=com.sam.bottom*

**August 2014 – November 2014, Imagination Technologies Ltd., Kings Langley, UK**

* Product Test Engineer in the Design Assurance Group (DAG) of the Pure division. Tested the power consumption, acoustics, connectivity and thermal tolerances of speakers and digital radios.
* Tested new software builds. Logged and tracked software bugs and hardware defects using JIRA.
* Research and written report on Service Following feature of DAB radio.

**July 2013 – August 2014, Intel Corporation (UK) Ltd., Swindon, UK**

* Engineering Intern working for the Platform Technologies Enabling Group (PTEG)
* 2014 – Part of the Retail Road Show, training and influencing retailers and OEMs across EMEA. Events included London, Milan, Madrid, Warsaw and Tel Aviv.
* 2013 – Work on the Intel-sponsored Scott Expedition, designing and testing hardware and software that the explorers took with them to Antarctica.
* Supporting consumer and business events, talking to the press and public about Intel technology. Helping retailers train their staff to sell the benefits of Intel processors. Organising on-site events promoting science and technology to students.

**SKILLS**

* Docker, Python, Flask, JavaScript, Node, Express, Jade, Linux, shell scripting, Git, GitHub, HTML, CSS, data visualization, Java, Ruby, Ruby on Rails, C, C++, Assembly, VBA
* Native English speaker, conversational French, basic German and Spanish

**ACHIEVEMENTS**

**Game Development**

* Interactive Yogsperience – PC game based on a popular podcast. To date, the game has been downloaded over 20,000 times.

**Music**

* Music that I’ve created and released online has been listened to over ½ million times.

**Awarded the School of Electrical, Electronic and Computer Engineering Chairman’s Prize 2009/10**

* For achieving some of the highest results in the Foundation Year

**REFERENCES**

Intel manager:

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