James Hunt

Software Engineer

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Profile

A passionate and dedicated software engineer with over three years of professional experience building web, desktop and mobile applications in a team setting. Proficient in full stack development and agile software engineering. A strong academic background achieving consistently high grades throughout university life and now looking for the next step in my career. Industry highlights include software engineering for safety-critical avionic tools aboard the Comac C919 aircraft, and mobile application development contributing to over 350,000 surveys being recorded to determine where the next full-fibre internet circuits will be enabled in the UK.

Employment History

**GE (General Electric) – Software Engineer (Intern)**

July 2019 – July 2020

Hired as an intern as part of my degree (year in industry), I had the chance to work at this Fortune 500 company as a software engineer in the aviation sector. I spent a year in the avionics and platform tools department where a wide range of flight tools that underpin large projects at GE are designed and developed (for example, flight management, navigation and communication systems). Highlights of my time spent at GE include:

* Worked as part of a medium / large team on a project ongoing for over 10 years.
* Wrote software for qualified flight tools.
* Re-architected and implemented a test framework responsible for running over 2000 tests on one of our qualified tools.
* Setup and maintained a Jenkins server, along with writing multiple pipeline scripts which, when automated, executed a combined 8000 tests daily.
* Designed and developed a powerful graphical editor using a .NET desktop stack.
* Worked with requirements and wrote tests using Microsoft’s MSTest framework.
* Wrote technical documentation and user guides.
* Used Git and GitHub for version control.
* Adhered to Agile software engineering principles (stand-ups, sprint planning and backlog refinement meetings).
* Collaborated with teams in the USA and Mexico.
* Wrote software with technologies such as .NET / C# / XML / WPF / Prism / MEF.
* Represented GE at talks and presentations.

**Bespoke Technology Labs – Software Engineer**

Sept 2018 – July 2019

Originally hired as a contractor to do Android software development, this ended up becoming a permanent position as a software engineer where I worked on a wide range of projects spanning multiple different technologies. Highlights of my work include:

* Development of an Android application (called ‘InDemand’) to help providers of full-fibre (gigabit) internet determine where they want to activate their next circuit. Used by companies such as Triangle Networks, CityFibre and Vodafone, InDemand has recorded over 350,000 home surveys and has captured responses to over 1,000,000 questions.
* Web application development with HTML5, CSS, JavaScript (jQuery) and PHP.
* API development with PHP.
* Database development with MySQL.
* Agile software engineering (use of Trello and other Agile tools).

**University of Plymouth – Software Engineer (contractor)**

June 2018 – Sept 2018

Contracted by the School of Medicine and Dentistry in conjunction with the Department of Computer Science at the University of Plymouth, researches were seeking more efficient methods of collecting data from sufferers of multiple sclerosis. Previously, physical diaries were handed to patients, however these proved to be inefficient and not well suited for the task. Whilst working as a software engineer at the university, I did the following:

* Negotiated technical requirements with senior staff.
* Conducted regular meetings with users to get feedback and help understand use-cases.
* Applied Agile software engineering methodologies (progress meetings, backlog management and code reviews) to a real-world project.
* Designed and implemented a robust, relational database using Microsoft SQL Server.
* Used **.**NET, C# and Xamarin to develop an Android mobile application allowing patients to submit valuable data to our database e.g. if they had fallen that day, if so, how many times and if they had injured themselves.
* Used ASP.NET to develop a secure, web-based administrator dashboard allowing: CRUD operations on the database, exporting data into formatted Excel spreadsheets, and data summary generation e.g. what data had been recorded recently.

Education

**University of Plymouth – BSc (Hons) Computer Science**

September 2017 – July 2021

Studying computer science at university allowed me to fully immerse myself into the field. Covering topics ranging from software engineering to machine learning, I consistently got high grades throughout my university life and regularly participated in extra-curricular activities (for example, being Chairman of the Computer Society and working as a PALS leader). I also did a placement year (internship) working at General Electric where I wrote software for avionic systems. Examples of classes where I achieved first class results include but are not limited to:

* Computation Theory & Artificial Intelligence
* Object Oriented Software Engineering
* Design Patterns
* Databases
* Database Application Development
* Analysis & Design
* Operating Systems (Principles of Infrastructure)

Technical Skill Set

* .NET / C# / WPF / Forms / Java
* Xamarin / Unity / Prism / MEF
* HTML5 / CSS / JavaScript / jQuery
* ASP.NET / PHP
* MySQL / Microsoft SQL Server / Oracle Database (PL-SQL)
* CI/CD (Jenkins / BitBucket pipelines)
* JUnit / MSTest / Javadoc / Doxygen
* C / C++ / Mbed
* MATLAB / Python
* Git / GitHub / BitBucket
* Jira / Trello / Confluence
* XML / JSON

Hobbies

**The Computer Society (CompSoc)**

Whilst at university I noticed a lack in social events in the school of Computing, Electronics and Mathematics. Along with my friends we started the Computer Society where I became the Chairman for two years. This role included managing the committee, conducting regular meetings, public speaking to represent the society and much more. The society was passed onto the next wave of passionate students and I still remain a member to this day. Highlights of my time on the committee include:

* Guest speakers from different companies including Just Eat.
* A hackathon hosted in associated with GitHub and MLH where 40 people competed for 12 hours for different prizes. Free food and drink were provided along with a load of guest speakers and free goodies.
* Smaller hackathons and regular social coding events.

**Staying Active**

Outside of the office I enjoy partaking in regular physical activity (between 4 – 6 times per week). The feeling of reaching a new personal record is unrivalled for me, so much so that I developed a fitness tracking application during the summer of 2018 (still under development when possible). Find it here: <https://evolift.app/> (built with: HTML5, CSS, JavaScript and PHP with a MySQL database).

Contact Details

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GitHub: <https://github.com/JamesHuntCode>

References

Available on request.