

Max Petts

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Notable Projects

Image Mapping: *PHP, Apache, JQuery*

A full stack app handling image uploads, extracting their Exif data and rendering them onto a LeafletJS map.

Image Tooling: *C++, OpenCV*

An image processing toolkit capable of performing common computer vision tasks. Like object detection, background subtraction, and kernel convolutions.

Portfolio Site: *Next.js, TypeScript, CSS*

My personal and work portfolio; enables me to upload new projects by creating json files.

Chat Client: *Java*

A multithreaded, socket based chat app, via console, enabling many connections to one server.

Cross Platform Todo App: *Swift*

A todo app that can be run on macOS, iOS and iPadOS.

All available on my website: maxpetts.me

Education

Bangor University: *(2017 - 2021)*

BSc Computer Science: *1st Class Honours*

Dissertation title: *Digitally referencing images to a geographical location to aid memory recall*

During my educational assignments and personal side-projects I have explored a myriad of programming languages: **C++, PHP, Java, Python, Swift, JS** and have integrated them onto server platforms, like Apache or Vercel, with numerous different runtime environments, such as Node.JS, Deno, and the Apache PHP module. I have experience with package/dependency managers and build tools like npm, yarn, Maven, CMake, Makefiles, and pip. Additionally, I have developed GUIs for these languages, some from scratch but also using frameworks/tools like Swing, TKinter, and UIKit/SwiftUI; and web-based technologies like Nextjs, and thus React. Throughout each of the aforementioned projects I have used version control software like Git; and create unit tests using GoogleTest and JUnit.

Alderbrook Sixth Form: *(2015 - 2017)*

A Levels

Computing

Media

Product Design

Alderbrook Secondary School: *(2011 - 2015)*

GCSE

Maths: *B*

Computing: *B*

Double Science: *BB*

English Language: *B*

English Literature: *C*

Drama: *B*

ICT (BTec): *B*

History: *D*

Past Employment

Revolution Bike Park: *(May - Present 2021)*

Uplift Driver (Part Time)

I ensure the safety of riders, with safety briefings and ensuring their protection equipment is adequate. Throughout the day I am the first point of contact for on-trail injuries and must gauge the severity of injury to ensure the customer receives correct medical treatment. I often liaise between emergency services and on-site medical teams, via radio and phone, to ensure we receive the necessary services required for each injured rider - often multiple at one time. I solely drive, and ensure the mechanical wellbeing of a Land Rover Defender, while answering the questions of customers, reporting my position on the fire-road via radio, and am required to keep track of all 6+ other vehicles; to ensure no vehicular accident. My average work day requires multitasking, constant situational awareness, fast-paced decision making all while maintaining a friendly face that customer-facing roles require.

Wesleyan Assurance Society: *(Jan - May 2021)*

HR Administrator

This was a work-from-home job, during covid and my final university year, that I was invited back to the company by the HR Operations Manager to facilitate, as there was severe obfuscation to employee files. As this job was undertaken during my final year at Bangor University it required impeccable time management and computer-based administration skills - for both this job and still meeting my deadlines. I was solely responsible for the company wide file restructure, which contained sensitive information - to the company and employees. This job enabled me to become acquainted with Windows Terminal; I found this was the quickest way to list all files within subfolders. I made the judgement on whether files were required based upon their creation date, file size and file type; all executed using Windows Terminal.

Iceland Foods: *(August - May 2020)*

Delivery Driver (Part Time)

Loading, cleaning, mechanical checks of the delivery van. Communicating with customers to ensure their expectations are met when items are not available or I was unable to reach their property. Navigating North Wales country roads during all weathers and at all times throughout the day; from 5AM - 10PM. During my time working at Iceland Foods I was responsible for recovering my vehicle in snowy and icy conditions; I often had to grit roads by hand in order to safely reach customers' properties.

Wesleyan Assurance Society: *(June - Sept 2019)*

Expenses Administrator

I was responsible for approving and validating 1000s of employee expenses each month, this required me to ensure each expenditure conformed to company policies or had valid approval from managers. Expenses would range from personal lunches to executive client days out, upwards of £300. I would help employees overcome payroll and expenses issues via phone and email; using Microsoft Outlook. This further helped me appreciate the need for working within corporate policies and procedures.

Pertemps UK: *(Seasonal 2017 - 2018)*

Waiting

During my time working with Pertemps I worked at: John Lewis as a kitchen porter and waiter; Aston University waiting, serving appetisers and portering during their graduation ceremonies.

Haslucks Fish Bar: *(2016 - 2019)*

Front of House

This was my first paid job, I enjoyed this as, at times it was demanding, fast-paced. I learnt to operate all cooking equipment and was responsible for timing the cooking of customers

orders. I also operated the till and cleaned the entire shop meticulously. This job helped me hone my attention to detail as I ensured the shop was spotless, and that each order contained the required food items.

Voluntary Employment

Bangor University Snowsports: (2020 - 2021)

Merch and Media Officer

This is an elected position within a nationally competing skiing club. I designed our race and freestyle teams kit; liaise with club sponsors to ensure their requirements are met for club merchandise. I also ran and managed each of the social media pages that the clubbed owned. This involved creating weekly posts detailing club meets and also handling all transactions when members were purchasing merch. Unfortunately for this year we had to cancel our annual ski trip due to Covid-19.

Bangor University Snowsports: (2019 - 2020)

Social Secretary

Also an elected position involving planning, running and promoting weekly social events for +100 people. Organising an annual ski trip to Les Deux Alpes. Running social media campaigns promoting the club and our events during freshers week; and throughout the year. Working with local pubs and clubs to plan events for students and the general public; some of which were attended by 600+ people. I was solely responsible for greeting new members and ensuring everyone felt included and valued. This role required excellent organisational skills coupled with people facing promotion and a focus on inclusivity.

Bangor University Open Day Room Visits: (2017)

This involved exhibiting university managed accommodation to prospective students and their families. This reinforced my love for meeting new people and discussing important subjects with them.

6th Shirley Scout Troup: (2016)

Assistant Leader

Organising activities, encouraging active participation and inclusivity. Overseeing the health and wellbeing of all Scouts whilst promoting learning and development .

Work Experience

Graffica: (2016)

A week was spent observing the role of an IT software developer. This was the experience that I needed to reinforce my love for computers and their industry.

Alderbrook IT Department: (2016)

Spent a week discussing and overcoming the every-day problems that systems administrators encounter.

Beirsdorf UK: (2015)

Spent a week observing the role of a network administrator.

Awards & Qualifications

Bangor University Half Colours

Category B Driving License

Duke of Edinburgh Award

National Citizen Service

PADI Open Water SCUBA Diver

Skills & Interests

I initially got into programming and computers in 2011, where my love for gaming and pushing boundaries caused me to begin toying with the code of, embarrassingly, Minecraft. I have built numerous computers, as early as 2012, for personal use and have been hired to design, setup and build one-of-a-kind gaming computers and their accessories. Since then I have always been evaluating all things based on their performance, logic and overall efficiency; I believe everything should be as waste-less

and efficient as possible - hopefully my code reflects this!

I am a diehard Unix fan due to the extensive customisation capabilities and it's open-source nature; having always been recovering data from lost disk partitions and file systems I am capable of navigating and performing common tasks through the terminal. I have settled on using macOS as my main OS due to it sitting in the middle ground of nice animations, UI, good creative apps, and being Unix based. My text editor of choice is Vim, however, very occasionally, I will use VS Code; I prefer to stay in the Terminal - I use iTerm2 with oh-my-zsh and powerlevel10k. Due to my interest in the arts, specifically music and drama, I have always enjoyed creating things, and have a particular interest in visual coding; and the subsequent art produced by this - I really enjoy using Processing, Blender or OpenGL to generate interesting visuals.

When I'm not scratching my head at a computer I enjoy anything mountain based; I've skied since I was 4, mountain biked for 2 years, climbed for 3 years and always enjoyed exploring new locations. I'll enjoy anything that involves the humbling land-mass that is a mountain or out away from civilization; I am at my happiest when I'm in the wild with a group of people. However, I have grown up living in Birmingham, and have developed an urban love for bikes - specifically BMX; this a significant part of my life and has been since I was 12. I have presented a case in front of local council members for the refurbishment of a local skatepark.

Throughout my younger years I participated in many drama productions, and from 2015-2019 was a member of a production company. As a collective we produced countless performances that tackled troubling problems, such as: self harm, drug addiction, and alcoholism. The most significant of them, "Scratching the surface", focused on a family impacted by self harm, which competed in a national competition and placed second.

Whilst I do enjoy working alone, my previous employment roles have reinforced the need for regular communication between co-workers, as to overcome technical problems and issues more efficiently, just like rubber duck debugging: having someone to talk to will help solve problems. My experience with World Challenge helps to reinforce my ability to work efficiently within team-based environments. During this time I raised >£4000 to fund a month long charity project in Bolivia where we refurbished a community run school and submitted my first >5000m mountain Pico Austria (5270m).

References

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