

SAMUEL SHUM

Software Developer

CONTACT ME



SamShum90@Gmail.com



Edinburgh



@SamShum90



@Samuel-Shum



samshum90.github.io

TECH STACK

- Languages

| HTML5 | CSS3 | JavaScript | Ruby |
Java | Python | C | TypeScript

- Frameworks / Libraries

| Vue | React | Express | Sinatra |
Spring | Flask | Django | Angular

- Test Driven Development

| Pry | MiniTest | Mocha | JUnit |
UnitTest |

- Database

| MongoDB | PostgreSQL | H2 |
SQLAlchemy | Firebase

- Version Control

| Git | GitHub |

- Deployment

| GitHub Pages | Heroku | Docker |

- Design Tools

| Trello | Draw.io | Canva | Ziteboard |

- Adobe Suite

| XD | Photoshop | Lightroom | After
Effects | InDesign | Illustrator |

- Editing

| Sony Vegas Pro | Audacity |

PERSONAL PROFILE

I am a creative Software Developer with a passion for creating solutions to complex problems, using my imagination to idea from a concept to a finalized product. With a background as a Chemist, curiosity and logic comes naturally to me, but it wasn't until an implementation of an un-suited management system that sparked me to pursue my passion and lifelong love of technology and computers.

Knowing the impact that technology can make, I'm looking forward to using my updated skills to create meaningful digital solutions.

PROJECTS

GYM-MASTER | [Github](#) | [Link](#) |

| Solo | 5-days | Ruby - Sinatra - Postgres |

A web app built following MVC design for use in a gym to manage members, classes and instructors. Features include: -

- Filtered Class bookings
- Pictures can be uploaded to the member profiles
- Filtered scheduled classes

COVID-19 ANGELA | [Github](#) | [Link](#) |

| Group | 5-days | Vue - Node.js - MongoDB |

Full-stack web application built in response to the pandemic. Allows the self isolated to make request. Features include: -

- Requests viewable in a list or map format
- **Geolocation** API used to locate the user
- **Nominatim** API used to obtain Geo-coordinates of the addresses
- **Leaflet** maps used to place markers for each request
- **Google Charts** to display the number of request in each category
- **Bootstrap Vue** used for styling

Our Shop Best Shop | [Github](#) | [Link](#) |

| Group | 5-days | React - Spring Boot - MongoDB |

Full-stack e commerce store built with inspiration from Amazon and merchandise from Code Clan as a prototype. Features include: -

- Store authentication using **JSON Web Tokens**
- **Spring Security** was used to secure Back-end
- **React Router** secure routes
- Full search and filter capabilities
- Basket saving on log in/out
- Customer services chat window
- **Stripe** was used to process payments
- **Semantic UI** used for styling

Dis-cretion | [Github](#) | [Link](#) | [DevPost](#) |

| Group | Month | Vue - Flask - MongoDB |

Participated in a month long hackathon Automation Anywhere COVID-19 Bota-thon, while I was in my last month of Code Clan. We built a tool to empower staff to make informed decisions on employee requests.

- Machine Learning used to present relevant policy information to deal with the request
- Automation Anywhere's bot is triggered to send a customised email update on behalf of the user to the requester.
- **Vuetify** used for styling

EXPERIENCE

ASCO, Damhead Waste Site, Peterhead

Nov 2018 - Dec 2019

Site Chemist

My role was to sample and identify different chemical and general waste from offshore oil rigs

- Identification and segregation included a regularly problem solving and intuition
- I was involved in the company transitioning to digital receipting and stocking system
- During the integration of the new system frequently teaching and retraining others, giving feedback and improvements and coming up with work arounds to use this new system

Various Chinese Take Aways, Aberdeen

Jan 2004 - Dec 2019

Delivery Driver, Customer Assistant

Worked in a number of Chinese takeaways in my free time in a fast paced environment in a hot kitchen where customer satisfaction and speedy delivery was key

Tesco Extra, Aberdeen

Aug 2006 - May 2014

Customer Assistant

- My role included tech support for customer's bringing in broken products for return or repair
- My role included advising customer purchases including teaching customers how to use their new purchase
- Staff training and supporting other departments was included as part of my role

EDUCATION

Angular - The Complete Guide (2020 Edition)

Jun 2020

Udemy Maximilian Schwarzmüller

C Programming For Beginners - Master the C Language

Jun 2020

Udemy Tim Buchalka's Learn Programming Academy, Jason Fedin

Code Clan, Edinburgh

Feb 2020 - Jun 2020

Professional Development Award in Software Development - SCQF Level 8

SQA accredited 16-week Professional Full-stack Software Development course with **800+ hours** of coding while practicing Agile methodologies to teach the fundamentals of software development including:-

- **Ruby Web Development** RESTful APIs, Sinatra, Pry, PostgreSQL and Postico
- **JavaScript full-stack development** JavaScript, Node.js, Vue.js, Webpack, Express, MongoDB, Insomnia and React
- **Java Advanced OOP** IntelliJ, H2, Spring Boot and Hibernate
- **Python** Flask, SQLAlchemy and Django
- **Test Driven Development** Pry, MiniTest, Mocha, Protractor, JUnit and UnitTest
- **Agile Principles** stand-ups, pair & mob programming, SCRUM, sprints and Kanban
- **Object Oriented Programming** SOLID principles & the four pillars of OOP
- **UX/UI Design** UML, Proto-Persona, Case/Class/Object Diagrams, Activity Diagram, User Journey Wireframe & Site Maps

University of Aberdeen, Aberdeen

Sept 2015 - Sept 2018

BSc in Chemistry(2:1)

Modules include Analytic methods in forensic chemistry, Analytical atomic spectrometry and speciation, Organic structure determination

VOLUNTEER

Pilton Youth & Children's Project, Edinburgh

June 2020 - Present

Full stack Developer

- Continuation on development of a web app using React and Firebase real-time database.

Aberdeen Chinese Church, Aberdeen

2013 - 2019

Youth Leader

- Working with energetic kids with short attention spans trained me to adapt, problem solve fast, in an always dynamic environment. While trying to make each child feel valued and involved.
- Trained my skill of compassion and empathy, as kids, teens and sometimes youth are usually unsure of what they are feeling, which I find useful for UX and team-working.

HOBBIES

I have a keen interest in all things tech and have dabbled in **building/ modifying** computers as well IOT smart devices. Outside of tech other interests include:-

- Photography
- Gardening
- Guitar
- DIY
- Board Games / Escape Rooms