

# Misha Bruml CV

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## SKILLS

### Computing

- **Full stack software engineering** JavaScript, NodeJS, MongoDB, React. Experience designing, building and maintaining entire web software systems/platforms including servers, API/backend, databases, frontend, job queue systems, unit and integration testing. Strongest in backend.
- **Cloud computing and infrastructure (AWS)** ElasticBeanstalk/EC2, Lambda, SQS, API Gateway, S3, SES
- **Devops, automation, testing** Setting up development environments and tools, collaboration tools, automated build/test/deploy, CI/CD
- **Leadership** management of a software project and small team, interviewed and hired other developers, mixture of office-based and remote. Implemented and followed a management structure, Git/GitHub, ZenHub/Jira/Trello, Slack
- **Building desktop software** Bespoke engineering tools in JavaScript, Node.js, Electron, Octave (Matlab)
- Comfortable using (and writing) command line tools, bash/shell scripts
- Proficient using Windows, Linux, Mac OS
- University modules: scientific computing in C/C++, Python, Matlab
- Self-taught C#, Microsoft Visual Studio by Rob Miles' "C# Yellow Book" and personal programming projects

### Academic

- Strong numerical, mathematical and analytical skills, problem solving ability
- Data, statistics, error and uncertainty analysis techniques
- Technical report writing. University dissertation research project received a high first Classification. Industrial literary research and technical software documentation
- Group work projects; teamwork, communication, presentations, and effective meetings
- Elective modules in ethics, and the philosophy of physics have given me a broader understanding, and showed that my written skills are not limited to the technical report style.

### Research and Apparatus

- Thin film sputter deposition, sample preparation, VSM/SQUID magnetometer, high vacuum systems, SEM/TEM, crystallography, spectroscopy

### Other skills and personal:

Volunteer as a programming coach at Codebar in Bristol and participate in online programming/algorithm writing competitions such as Codewars, Hackerrank. Keeps me sharp!

Working in several environments with the public has taught me the importance of people skills, and I consider myself a good communicator. Studying for my degree taught me how to organise my own workload, and multi-task, whilst working in a busy doctors surgery, pubs and kitchens through my youth has given me the ability to work effectively in a team. Working as an outdoor instructor, and as a sailing coach shows that I can also be a strong leader, and am responsible.

During my free time I enjoy the outdoors, especially mountaineering and rock climbing. I have been a member of the University Mountaineering Club while at Leeds and also in Glasgow. It is my passion for rock climbing that led me to seek work in the mountains of Spain (El Chorro, Andalusia) for 8 months over the winter 2016/2017.

## EDUCATION

Postgraduate Diploma in Advanced Materials (Physics)  
University of Glasgow 2014-2015

BSc, Physics  
University of Leeds 2011-2014  
Graduated with (2.1)

## EMPLOYMENT HISTORY

**Interim CTO/Software Engineer**  
Upugo, Bristol

October 2018 - September 2019

Reference: Luke Sartain, CEO. [luke@upugo.com](mailto:luke@upugo.com)

Taken on as interim CTO in October 2018 after previous CTO fell unwell and left abruptly. Inherited a large and complex app consisting of over 100k lines of code, multi-repository and distributed over AWS in microservices/components. A 1-week handover and minimal documentation meant I had to do a lot of digging and discovery myself.

- After a few months gained control of the software system to a level where I was able to maintain the system, fix bugs and start implementing new features
- Learnt about the SEO/digital marketing industry that the app supports

### **Graduate Engineer (Software)**

Paradigm Flow Services, Aberdeen

October 2017 - September 2018

Reference: Hugh Mackenzie, Technical Director  
[hugh.mackenzie@paradigmflow.com](mailto:hugh.mackenzie@paradigmflow.com) 01330 700801

- Wrote full stack MVC desktop software to assist analysis of hydraulic transients
- Wrote advanced Octave program to implement fatigue analysis algorithm for asset integrity/lifespan project. Batch data processing and producing graphics
- Research conducted into fluid mechanics, transients, petrochemical/hydrocarbon modelling; full technical report produced
- Involved in an application for DNV certification of a product. Wrote a technical paper explaining the maths/theory (hydraulics, flow) behind the product
- Conception and assisted in design of a new instrument (acoustic velocity cell) to assist operations. Unfortunately lack of funding currently put this on hold
- Designed and conducted several internal trials/experiments, mainly verifying design criteria of high pressure hoses and connectors

- Experience working in an industrial “simulated offshore environment” research/test yard. Full PPE and strict safety culture
- Assisted in set-up and running of industrial scale pumps, high pressure equipment, testing apparatus, use of hand and power tools

### **Sous chef & hospitality team**

The Olive Branch

Climber’s guesthouse and campsite, El Chorro, Spain      October 2016 - May 2017

- Sous-chef, breakfast chef, and waiting staff for dinner service
- Kitchen Porter, cleaning and campsite maintenance

### **Medical Administrator**

Kessington Medical Centre (NHS), Glasgow

December 2015 - September 2016

Brockwell Park Surgery (NHS), London

Summers of 2013 & 2014

- Front-desk receptionist; dealing with patients face to face and over the phone
- Administrative tasks, ingoing and outgoing verbal and written communication
- Dealing with sensitive clinical information
- Completed training in clinical coding (READ) and begun coding for GPs
- IT skills and initiative recognised, invited to work on a several month project with an external coordinator to implement a new NHS scheme

### **Bar staff and site staff**

Weddings in the Woods

Summers of 2012 & 2013

- Managed a busy bar at a unique wedding reception venue
- Site staff for general set-up and running of the wedding reception including waiting, coordinating with caterers and other companies
- Remained on-site as “on call” overnight staff to supervise guests staying in the cabins

### **Dinghy Instructor**

IOCA UK

Summers of 2009-2011

- Qualified as a RYA Dinghy Instructor, Powerboat Level 2 Driver, First Aid certified
- Coached groups of young children for week-long international sailing competition
- Responsible for the learning and safety of the children throughout the week