

Misha Bruml CV

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SKILLS

Computing

- Proficient using Windows, Linux, Mac OS
- Full stack software engineering in JavaScript, NodeJS, React. Experience designing, building and maintaining entire software systems/platforms including servers, API/backend, databases, frontend, job queue systems, unit and integration testing
- Cloud computing and infrastructure (AWS); ElasticBeanstalk/EC2, Lambda, SQS, API Gateway, S3, SES
- Setting up development environments and tools, collaboration tools, devops, automated build/test/deploy, CI/CD
- Comfortable using (and writing) command line tools, bash/shell scripts
- Experience writing desktop engineering software tools in JavaScript, Node.js, Electron, Octave (Matlab)
- 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
- Participate in online programming/algorithm writing challenges such as Codewars, Hackerrank

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

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

Referee: Luke Sartain, CEO. luke@upugo.com

Experience designing, deploying and maintaining distributed/microservice architecture in

Graduate Engineer (Software)

Paradigm Flow Services, Aberdeen

October 2017 - September 2018

Referee: Hugh Mackenzie, Technical Director
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