Brighton, UK

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cassm

Cassandra May
Full Stack Developer, Bare Metal to DOM

Front End
- Deep JS understanding (ES6)
- Jest, React Testing Library
- React
- HTML5
- CSS
- SVG
- Webpack

Back End
- Very strong network fundamentals
- Websockets (C, C++, Python, JS)
- Node & NPM
- Flask
- Redis
- Mongo

Devops
- Linux admin: Debian, Ubuntu, RHEL
- Tools design & development
- Python scripting
- Shell scripting
- Network administration

Systems Programming
- Embedded systems development
- Testbench development
- Linux kernel hacking
- Make & Makefiles
- VI, VIM, TMUX
- sed & awk
- C & C++
- Bootloaders
- Chip Bringup

Engineering Skills
- Exceptional Git knowledge
- Refactoring and stack unrotting
- Profiling & code optimisation
- Expert bug hunter
- Test-driven development
- Inter-team co-ordination
- Onboarding & mentoring
- API design
- Agile

Generative Design
- Excellent algorithm design skills
- Three.js
- Openframeworks
- Kinect
- Shaders

Firmware Engineer II, DSL R&D
Broadcom Limited
2015 - 2020

- Network bringup of BCM65400 & BCM65450 SoCs
- Ownership and redesign of several major project areas
- Liaising with silicon and modem design teams
- Lead role in bringup process adaptation following reorganisation
- Development of internal tools for hardware teams
- Development of test and reference driver code
- Instrumental in identifying multiple showstopper bugs prior to tape-out

R&D Engineer
Leo Dearden Enterprises
2014-2015

- Collaboration on pre-startup phase of a new 3D printing technology
- Responsible for overcoming several key roadblocks
- Rapid prototyping – CAD & CAM, 3D printing, resin casting, machining
- Whole-system functional testing

M.Sc. Computing Science (Distinction)
Imperial College London
2013-2014

- Studies focused on robotics, networkinging, and systems programming
- As part of a group, developed an autonomous drone control system using commodity hardware
- Developed a homogenous distributed intrusion detection system for wireless sensor networks

B.Sc. Archaeology (First Class Honours)
UCL
2004-2007

- Specialised in archaeozoology, survey methods, and the development of electronic learning aids
- Selected for fieldwork placements at prestigious sites in Greece, Turkey, and the UK
- Assisted with research on taxonomical classification of the Çatalhöyük and Tell Taya collections

Hobbies & Projects

- Light art (see pyzzazz & pyzzazz-www on my github)
- Vintage synthesizer repair & restoration
- Playing guitar, bass, keyboard
- Generative art & creative programming