CONNOR SWAIN

Highly motivated and proactive Django, Python and React developer, both technically capable and business aware, looking to deliver results in an international commercial environment.

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Employment History
Lead Software Engineer at Jakt, June 2016 – Present
Jakt is a full stack product studio that offers design, development and business strategy services.

Working in a small team as the lead backend developer, I delivered multiple successful applications across the finance, healthcare and social media industries. Primarily using Django/Python to produce scalable REST APIs for mobile apps and web applications, my team took start-ups' ideas and transformed them into industry changing products.

When working on full stack projects, I also collaborated on front end implementation and architecture using React, Redux and SCSS. With experience complying to both PCI and HIPAA regulations, I designed company-wide best practices documentation and templates, focusing on high security, code reusability and simplicity.

Projects delivered include:
- **Trial Tech**, streamlining clinical trial intake by leveraging digital marketing and analytics. Working independently, I've developed dashboards for various stakeholders such as Site Coordinators and Trial Sponsors, as well as connecting FormStack and Zendesk integrations into a central database. Using React/Redux for the frontend, with a Python/Django backend, the full-stack project is currently undergoing a beta test.

- **Cribdilla** – a NYC rental listing web application takes prospective tenants all the way through choosing an apartment, getting a credit check and signing a rental lease. Including integrations with TokBox, NTN, Stripe, Facebook and Twilio, the Python/Django server is optimised and cached to provide a fast and scalable solution.

- **Rally Rd,** a platform where collector cars are turned into stocks. As the lead backend engineer in a team of Python and iOS developers, my responsibilities included data model and server architecture, task distribution and feature planning. The project was validated without additional recommendations after undergoing a third-party security review.

Chief Technology Officer at Mixxta, July 2015 – June 2016
Mixxta is a cross platform mobile app that enables people to connect with other users to enjoy shared dining experiences together.

As CTO, I was responsible for:
- **Scoping** and designing the project specification and requirements
- **Leading** an international team of developers, designers and QA testers to develop the Android and iOS mobile apps
- **Developing** an effective and reliable Django backend and PostGIS database for the apps to communicate with
- **Configuring** a rapidly scalable, secure and monitored infrastructure using Heroku, S3, Redis, New Relic and Papertrail
- **Managing** the security of all the technology to ensure no data is compromised
- **Designing** a marketing site and web functionality using HTML, CSS and JavaScript (including Angular)

These mobile apps were successfully brought to market ahead of schedule and within budget.

Junior Developer at Singing Horse Studio, Nov 2013 – July 2015

- Developed a high performance NearYouNow API to provide local and relevant news stories to national media outlets and a dashboard interface for journalists to manage content. The project was highly commended in the 2015 Digital Innovation of the Year News Awards.
- Optimization of client's adverts using custom built algorithms, taking mathematical data from the Google Adwords API for the in-house ad agency.

Qualifications

Computer Science BSc Hons, University of Sussex, 2015

- First class honours
- Modules included Mathematical Concepts, Programming Concepts, Comparative Programming, Limits of Computation, Web Applications, Data Structures and Algorithms, Further Programming and Professional Skills (presentation and communication)
- Projects completed:
  - Designed and implemented my own version control system called 'Jet' for my final year project. This was written in Python and used a Django server to make it a distributed system. It is now an active project on the Python Package Index.
  - Used my Natural Language Engineering skills to code a program in Python to detect writer's opinions about amazon products in tweets.
  - Created a compiler for a fictional language, coding the lexer, parser and code generator in Java.

A-levels, Queen Mary's College, Basingstoke, 2012

- Mathematics (A), Computing (B), Business Studies (B)

Previously lived and studied internationally in both Brazil and USA, with employment experience in the UK and Canada.

Interests and Volunteering

- Elected as President of the University of Sussex Mountaineering Club (2014-2015). This voluntary role included taking 30-40 people climbing indoors every week, planning and organizing trips across the country and abroad, as well as administration with the Student Union, the national climbing body (BMC) and local climbing centres. I am currently a member of the British Columbia Mountaineering Club.
- Alongside my passions in Snowboarding, Rock Climbing and Mountain Biking, I'm qualified in Wilderness First Aid, Rock Rescue and am taking an avalanche rescue course (AST-1).
- Completed Tough Mudder twice - a 20km SAS designed obstacle course requiring stamina, strength, determination and teamwork.
- Having spent many years abroad, I am a keen traveller and always like to explore new countries and environments – I have been to 19 countries so far and plan to experience more in the future.

**To see my project portfolio, skills or links to my GitHub and LinkedIn profiles –
please visit my personal website at connorswain.co.uk**