

# Charlotte Brandhorst-Satzkorn

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## Personal Profile

I am a passionate and driven backend developer with an interest in dev-ops and security. In the past four years, I have survived a life threatening illness, left a PhD, gone on a journey of self discovery, and found the thing that drives me: software engineering. Learning to code has reawakened a lifelong passion for technology, learning and innovation I thought I had lost. My bootcamp experience has provided me with a foundation, and now I am searching for a role to grow as a developer. Leaning on the skills I acquired during my research, such as project and time management, allows me to be a valuable contributor to my team. I know what I want in the next four years, and I want to become a *damn good* software engineer.

## Projects

[github.com/gopheracademy/showrunner](https://github.com/gopheracademy/showrunner)

### *Open Source Management System for GopherCon*

- Written in [Go](#) and [PostgreSQL](#)
- Contributed initial schemas and backend API designs for different areas of application
- Deployed on [Encore](#)
- Taking a central role in code reviews
- Project is ongoing

[github.com/catzkorn/subscript](https://github.com/catzkorn/subscript)

### *Subscription Management Platform*

- Subscript allows users to keep track of their subscriptions and be notified when renewal is due
- Backend written in [Go](#) with [PostgreSQL](#) for data persistence
- Frontend written in [JavaScript](#) with [Bootstrap](#) for styling
- Integrated the [Open Banking API](#) via [Plaid](#) and sent .ics reminders via the [SendGrid](#) email API
- Deployed on [Heroku](#), with continuous integration via [Github Actions](#)
- Responsible for data persistence, email reminders, testing, deployment and documentation
- Subscript was built as a final engineering project at Makers Academy, and a short presentation of the project is available [on YouTube](#).

## Education

### **Makers Academy Bootcamp (August 2020 - November 2020)**

#### **Software Development Student**

- Built applications in variety of languages, including Ruby, Rails, JavaScript, SQL (PostgreSQL, ActiveRecord) and Go
- Extensively practiced TDD principles using RSpec, Jasmine and Capybara
- Learnt and applied architectural patterns including MVC and DDD
- Pair programmed extensively during design and development of applications
- Provided code reviews focusing on OOP, DRY, SRP and RESTful API design
- Deployed to, and interacted with, cloud platforms including AWS, GCP and Heroku
- Integrated CI/CD workflows using Github Actions and Travis-CI on Github
- Development driven by Agile project management principles using Github Projects and Miro

## **University of Southampton (2014 - 2019)**

### **PhD Candidate, NERC CDT in Oil and Gas**

#### *Base and Heavy Metal Mobilisation during Hydraulic Fracturing of Black Shales*

- Exploring fluid-rock interactions and metal mobilisation to inform regulation and best practices for shale exploration onshore in the United Kingdom
- Solely responsible for project management and direction
- Designed and executed experimental procedures simulating hydraulic fracturing conditions in a laboratory setting
- Presented research at internal and international conferences
- Withdrew from the program prematurely in 2019 due to illness

## **University of Portsmouth (2011-2014)**

### **Bachelor of Science (Hons) in Environmental Science (2:1)**

#### *Acid Mine Drainage and Toxic Metal Contamination from Abandoned Mine Tailings in Adak, Northern Sweden*

- Researched scientific literature to find follow-up research opportunities
- Evolved prior research methodologies to account for improvements in analytical technologies
- Provided detailed written recommendations for site remediation strategies
- Awarded *Best Presentation 2014* for research findings and presentation

## **Experience**

### **B.M.W Financial Services - Hook, UK (2010)**

#### **Financial Support Administrator**

- Working within a small team to provide site wide administrative support
- Communicating with external partners to provide fast and effective solutions to varying issues
- Delegating issues to various teams to ensure evenly distributed workloads
- Responsible for documenting company IT procedures for outsourcing handover

### **Master Cleaners - Farnham & Haslemere, UK (2009-2010)**

#### **Shop Attendant**

- Solely responsible for daily store management
- Provided customer service by communicating in depth product knowledge when requested
- Accurately managed and clearly documented store accounts

### **Otter Nurseries - Ottery St. Mary, UK (2009)**

#### **IT Administrator**

- Worked in a small team to provide effective IT solutions for a multi- site garden centre
- Designed, wrote and edited content for publishing in Beautiful Gardens magazine

## **Interests**

My personal interests include outdoor sports such as trail running, mountaineering, skiing and climbing. I enjoy reading fiction and non-fiction books, watching movies, playing computer games, listening to music of all genres, and I have been a lifelong fan of motorsport. I continue to have a personal interest in global environmental issues and actively keep up-to-date on the latest science. I run a blog about my journey as a new developer.