

## Summary

- PHP (*Expert*)
  - Python, GoLang (*Proficient*)
  - MySQL, Apache, Vagrant, Docker (*Proficient*)
  - Bash (*Proficient*)
  - Cloud Providers: AWS, Azure (*Prior Experience*)
  - Ansible (*Prior Experience*)
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## Education

### University College Cork

CORK, IRELAND

#### BSc Hons. Computer Science – First Class Honours (1.1)

2013 – 2017

In my final year, my degree took a focus on Systems Administration and System & Application Security

**Natural languages:** English (*full professional proficiency*), German (*Beginner*), Irish (*Intermediate*).

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## Experience

### Granite Digital

CORK, IRELAND

#### Web Engineer (PHP, Coldfusion) and DevOps

May '17 – Present

- Migrated organisation from a single monolith SVN repo to 181 organised Git repos on BitBucket.
- Reduced operating costs 21% by load-balancing wordpress and leveraging AWS S3.
- Eliminated website migration role by automating deployments through powershell (for IIS) and bash (for Linux).

### UCC Networking, Gaming and Technology Society (Netsoc)

CORK, IRELAND

#### Head Systems Administrator

May '16 – May '17 (1 Year)

- Managed DNS, Docker containers and backups for 6 server fleet using Ansible.
- Increased uptime by 40% by load-balancing UCC site docker containers.
- DNS, LDAP and MySQL architecture and management.
- Setup, secured and managed servers for 230 users.
- Managed 3-person dedicated Systems Administration team to deploy projects on-time and maintain existing systems.

#### Chairperson

May '15 – May '16 (1 Year)

- Developed web portal for 180 users, their DBs, webspace and automated backup retrieval.
- Managed 15-person team to organise 40+ events and 10+ student services

### Granite Digital

LITTLE ISLAND, CORK

#### Web Developer (Coldfusion, Java, PHP)

March '16 – Sep '16 (6 Months)

- Notable Projects: *PM Group Graduate Program* (PHP), *Cork University Business School* (Coldfusion, Java), *eStreet Multi-Vendor Platform* (PHP), *Meteor Mobile Communications* (Ruby).

*Please refer to my LinkedIn profile for a complete list of work experience before 2016, as well as recommendations.*

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## Projects

### Netsoc Discord Bot (Go, System Monitoring, Communication Automation)

Discord Bot written in Go to (1) monitor system and usage stats from Netsoc servers; (2) allow regular Discord users contact Netsoc's SysAdmins for technical support; (3) allow committee to bookmark and quickly retrieve linked resources (such as events calendars and spreadsheets).

### Go Twitter API (Go, Twitter API, Unit Tests)

Twitter client library for interacting with the Twitter API using Go. Interacts with the REST and Streaming API to provide a simple and comprehensive way to interact with Twitter from Go.

### SciKit Learn Helpers (Python3, Machine Learning, Data Modelling)

A set of helper functions for the scikit-learn machine-learning library to better facilitate data modeling, exploration and learning/testing pipelines. Implements a within-class mean imputer not offered by scikit-learn for deducing missing values based on the mean value within examples of a certain type.

### Lowdown (PHP, Facebook API, Job Queues)

An automatic weekly newsletter of society events in UCC pulled from the Facebook Graph API. Uses a job queue to continuously pull and update events from the API as well as stagger and time the distribution of the newsletter every week.