Website: andy-yu.com
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# A N D Y   Y U

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## EDUCATION

| **Adelaide, SA** | **University of Adelaide** | **2017-present** |
|---|---|---|

- Bachelor of Computer Science (Advanced), expected graduation Nov 2019 + Honours (Nov 2020). GPA: 6.143/7

## EMPLOYMENT

| **Software Engineer, Intern** | **Sine** | **Summer 2018/2019** |
|---|---|---|

- Workplace SaaS, visitor management with over 10 million check-ins and counting, working with the core product team using agile methodologies (JIRA/Bitbucket/Trello) - Full Stack (AngularJS/Node.js)

- Modified existing dropdown directive to allow site administrators to choose exactly which sites to broadcast a message to, instead of all/one

- Refactored AngularJS component for the activity feed, increasing code readability and reducing technical debt while maintaining consistent behaviour

- Developed RESTful API endpoints with unit tests, setting up the controller, service, and persistence/data logic for a brand-new feature on the iPad client which enabled visitors with invitations to check-in faster using autofill suggestions

- Created Python script to receive output from the serial port of our building's access control system
  - New proof of concept for the company: the script could hit any API endpoint on Sine Core. Check-ins and check-outs with Slack notifications were made purely by scanning an access card for a door
  - Set up new API endpoint for further development of the project

## TECHNICAL EXPERIENCE

**Projects**

- **Containerised Personal Website**. *Docker, Google Kubernetes Engine (Google Cloud), CircleCI*
  - Continuous Integration and Deployment: Each time a push is made to the GitHub repository, a new build is automatically deployed through CircleCI and the website is updated if successful
  - Using Docker images of the static website and Nginx Apache server which run in containers managed by a Kubernetes workload
  - Cluster autoscaling node pool based on workload demands
  - Exposed to the internet using NodePort type Ingress service on GKE

- **"Placeholder"**. Web app created for a hotel booking site. *JavaScript, Node.js, HTML, CSS*
  - Major project for Web and Database Computing, collaborated with two other group members resulting in a High Distinction grade, integrated with Google Maps API and OpenID login

- **Volatility of Cryptocurrency**. Web app acting as an interface for dynamic visualisations. *Python*
  - Project for Grand Challenges in Computer Science, investigating the viability of cryptocurrency as a fiat money in the economic market
  - Visualisations made using the Pygal API with Flask in the backend

## LANGUAGES AND TECHNOLOGIES

- C++ (proficient), JavaScript (proficient), AngularJS, Node.js, Python (familiar)
- Docker, PostgreSQL, Sequelize, Bash, Subversion, Git, jQuery, HTML, CSS

## VOLUNTEERING

- **Big Day In** (April 2018). IT careers conference held by the Australian Computer Society (ACS) foundation.