Website: andy-yu.com
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ANDY YU

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EDUCATION

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

- Bachelor of Computer Science (Advanced), expected graduation Nov 2020 (Honours). GPA: 6.167/7
- HD courses: Web and Database Computing, Algorithm and Data Structures Analysis

EMPLOYMENT

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

- Workplace SaaS, working with the core product team using agile methodologies - Full Stack (AngularJS/Node.js)
- Developed new feature which enabled visitors to check-in faster with autofill suggestions
  - RESTful API endpoints with unit tests, setting up the controller, service, and persistence/data logic
- Modified dropdown directive to allow site admins 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
- 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/check-outs with Slack notifications were made purely by scanning an access card

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
- **Pomodoro Timer**. iOS app acting as a visual representation of the pomodoro technique. *Swift*
  - Enforces better study habits, especially during exam time – increased my GPA, allowing me to transfer into the advanced degree
- **"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, High Distinction
  - Visualisations made using the Pygal API with Flask in the backend

LANGUAGES AND TECHNOLOGIES

- C++, JavaScript, AngularJS, Node.js, Python, Swift
- 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.