

# Course Overview

## *Software Architecture*

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*University of Queensland*



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- How to build software that is *reliable* and *fault tolerant*.
- How to build software that is *scalable*.

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## Studies

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- Deploying containers to cloud platforms using *Terraform*.

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- Deploying containers to cloud platforms using *Terraform*.
- Using cloud platform tools to *monitor* and *scale* applications.

# $\S$ *Assessment*



# Assessment

Project Proposal	5%
Presenting an Architecture	30%
Building a Scalable Architecture	30%
Capstone Project	35%

### *Presenting an Architecture*

1. Find an active *open-source* project that *interests you*.
2. *Discuss* the project with course staff.
3. Dive into the code and *understand* the architecture.
4. *Present* a summary of the architecture to the class.

## *Building a Scalable Architecture*

1. Build a *RESTful web API* according to our API specification.
2. *Test* that the API satisfies the specification.
3. *Deploy* the API to a cloud platform.
4. *Scale* the API to handle *high loads*.

### *Capstone Project*

1. Write a *proposal* for a *software system* that you would like to build.
2. Vote on other proposals that you would like to work on.
3. Teams of 4 students will be assigned to work on a project.
4. *Design* and *implement* the project.

*§ You and Us*

*Who are we?*



Richard Thomas



Brae Webb



Evan Hughes



Matt Holloway

*Question*

Who are *you*?

### *Course Website*

All course material is hosted on the course website:

<https://csse6400.uqcloud.net>

If you find any *errors* or have any *improvements*, please submit a pull request on GitHub:

<https://github.com/CSSE6400/software-architecture>