

Barclays Summer Placement

Who are Barclays?

- Multinational bank
- Responsible for many banking innovations
 - Contactless payments
 - World's first ATM
- Building a new Glasgow campus with a focus on technology roles



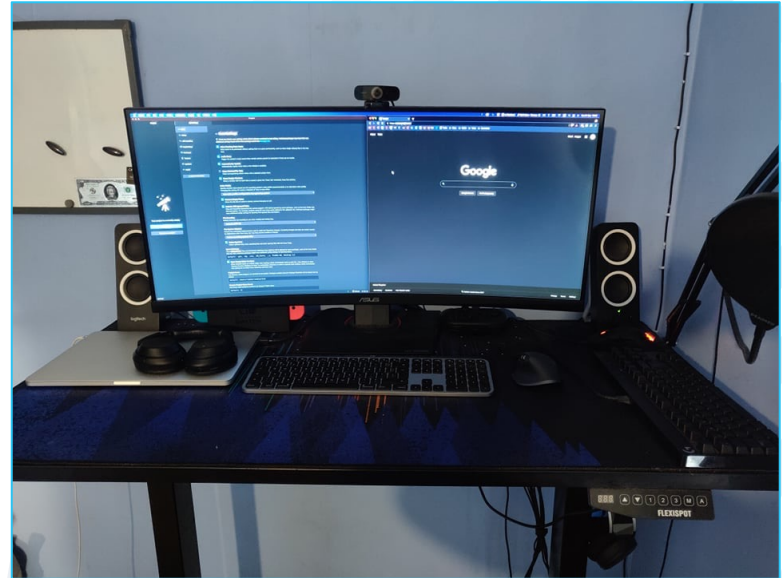
Render of the new Barclays Glasgow campus



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About the Summer Internship

- Taken place over 8 weeks
- Entirely working from home
- Many networking opportunities
- I worked within 'Wealth Processing' in the Equity Trading Platform team



My workstation for the 8 weeks internship



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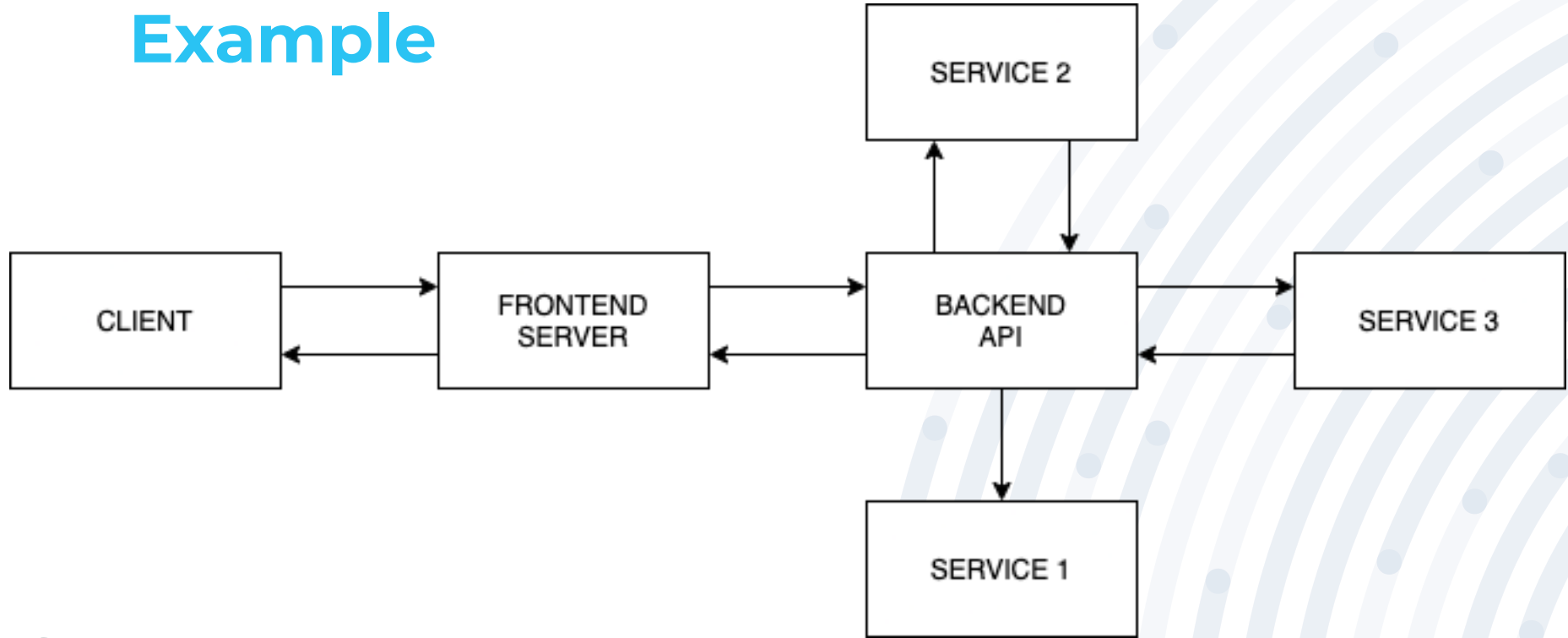
Overview of the Project

- Tool which is used to track latencies between different services
- Help identify and report issues which are causing the delays
- Stores the latencies in real time and will send out alerts when a latency threshold is breached
- This is an important tool because it's a trading platform, so speed and reliability is very important



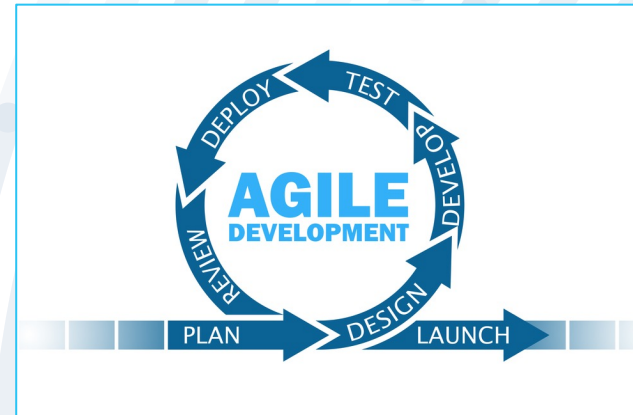
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Example



Project Management

- Agile approach
 - Sprints
 - Daily stand-ups
 - Retrospective, Review and Plan (RRP)
- Full control with design
- Taken turns being scrum master
- Used Jira, Bitbucket and Confluence



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Technologies I Learned

- Used quite a few AWS Services
 - CloudWatch
 - Lambda
 - DynamoDB
 - Simple Queue Service (SQS)
 - CloudFormation
- Deployed to Barclays AWS Service Catalogue



Lambda



CloudWatch



DynamoDB



SQS



CloudFormation



How University Helped be Prepared

- Professional Software Development
 - Quite a lot of the content taught appeared during the internship
 - Agile methodology, retrospectives, code reviews, feature branching etc...
- Level 3 Team Project
 - Team work experience
 - Stand-ups
 - Project management



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Thanks and Closing Thoughts

- Very valuable practical experience
- Learned a lot about being a Software Engineer
- Experienced new technologies
- Thanks for listening, any questions?



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