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## Shyan Chien

BIM Applications Engineer - Software Developer

Taipei, Taiwan

+886 972752434 | [shyan.chien@gmail.com](mailto:shyan.chien@gmail.com)

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### Key Skills

- Ability to work and communicate cross-disciplines and across industries, beginning with the end goal in mind.
  - Deep understanding of Building Information Modelling (BIM), leading to exploration of different ways to integrate it with other state-of-the-art technologies.
  - Able to bring projects from inception to deployment. History of developing fast prototypes as proof of concepts.
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### Experience

#### WSP / BIM Applications Engineer

September, 2020 - PRESENT, Taipei, Taiwan

##### Responsibilities:

- Responsible for the development of BIM web applications using the MERN stack to integrate with a Project Management Information System (PMIS) hosted on GCP.
- Also responsible for the management, maintenance, and promotion of the PMIS.
- To be constantly researching and planning ways of integrating new technologies with existing workflows to either automate tasks or help win more work for the company.

##### Key Projects:

- Develop an application allowing 2D and 3D models to be viewed directly on the browser, reducing the time key stakeholders spend searching for the correct version, and removing the need for expensive proprietary software.
  - Design dashboards using D3.js and React.js that display BIM data extracted from models directly on the browser, and allows comparison of different versions and to export reports.
  - Through the use of a visual programming tool called Dynamo and Python scripting, helped streamline the process of generating CAD drawings and performing QA/QC.
  - Developed a Digital Twin of the WSP office through the use of VR technology, BIM, and BA (Building Automation) systems. Prepared the BIM model, developed a back-end with Node.js to communicate with the BA system, and used C# to interact with Unity. Has been showcased in exhibitions in Taipei, allowing people to experience it.
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### Education

#### National Taiwan University / Masters in Computer Aided Engineering

September 2018 - August 2020, Taipei, Taiwan.

#### University of Manchester / BEng (Hons), Civil Engineering

September 2011- June 2015, Manchester, UK

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### Other Projects

Focused my master's research on applications of blockchain in the construction industry, and wrote my thesis "Blockchain-Based Approach for Bill of Quantity Management".