# Heran Yang

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| Github: https://github.com/heranYang93/
| Portfolio: https://heranyang93.github.io/Full-stack-developer-portfolio/

Upon the completion of the training as a full-stack developer, I'm now excited to look for opportunities as a frontend developer or as a full-stack developer. I'm currently working as a design engineer at an engineering consultancy firm where I have contributed to the development of multiple digital tools for internal use. After being exposed to generative algorithms and parametric design in my study and at work, I have decided to pivot my career toward the tech industry. In my past experience, I've received training in project management as well as various client-facing and internal-facing communication and financial strategies. I like to assume a client-oriented approach/thinking and I'm also comfortable working with teams of different sizes and backgrounds.

## Projects

**ISS Space Explorer** | The University of Manchester Coding Boot Camp

| Deployed page: https://heranyang93.github.io/go-go-space/

| Repo: https://github.com/heranYang93/go-go-space

The project is a prototype of an education app that helps children to explore the solar system by visualising the track of the International Space Station and introducing planets. The app successfully visualised the data (space station real-time location on the map) from various open-source space-related APIs and provides the users with an immersive reading experience.

- Coordinate the team development process
- Managing repository structure and setting up collaborative workflow
- HTML, CSS scripting (with Bulma, jQuery)
- Js scripting (animation, API data fetching, LeafletJs, Mapbox)
- Incorporating CSS framework (Bulma and jQuery)

**Legogram (Leg-it)** | The University of Manchester Coding Boot Camp

| Deployed page: https://legogram.herokuapp.com

| Repo: https://github.com/heranYang93/Leg-it

Through a combination of an exceptional concept with great technological delivery through industry-standard tools, the logogram app was created to meet the demand and maintain an ethos that bears a close relation to that of Lego's. Legogram is the perfect platform for users to come together and share their passion for the Lego empire. A lot of functionality around providing features to promote collaboration and communication has been purposely implemented to boost the sense of community on the app.

- Coordinate the team development process, review pull requests, maintain a clear repo structure
- Maintain a good MVC structure, design and script user profile page, design and engineer the tag feature (sorting different posts by tags);
- Create RESTfull API endpoints for features above (using dependencies such as sequelize, MySQL, bcrypt, Cloudinary, express);
- Create views with handlebars, HTML (with Bulma library), CSS

## Relevant Work Experience

**Ramboll UK** May 2021
Till now
*Graduate design engineer* Manchester, the UK

- Leading the development of internal digital tools (python, rhinoscriptsyntax)
  - Developing geometric analysis and generative tool for modularising building components. The tool can automatically scan through any type of geometry and can follow certain customised rules to split the surface into modules. Achieved approx. 40% time/internal resourcing reduction
  - Developing a parametric generative tool for facade products that can be used to transfer the design data to manufacturing data. The tool is designed to reflect carbon footprint.

- Developing tools for solar radiation based on local context.
- Client-centric
- Liaising with clients and suppliers, participating in meetings and workshops;

**Delft University of Technology** Sep 2017
Mar 2019
*Honors program research* Delft, Netherlands

- Review 3D printing methods and find the most suitable geometry for pipe-shape printing
- Review generative methods and algorithms that can be used flexibly for different target geometry
- Developing an agent-based algorithm to populate double-curved surfaces with pipe-shaped absorbers within a limited volume.
- Python programing and developing reusable modules.

## Technical Skills

| | | | |
|---|---|---|---|
| JavaScript ES6+ | HTML5 | MySQL | MongoDB |
| Python | CSS3 | React.js | Three.js |
| C# | jQuery | Express.js | Heroku |
| GitHub | Bootstrap | Node.js | |

## Corporate and Other Skills ( * through certified corporate workshops and courses)

| | |
|---|---|
| Effective communication * | Mandarin (native), English(bi-lingual), Italian (bi-lingual), Dutch (beginnner) |
| Manage effective meetings * | Adobe Package |
| Time management * | Digital Modelling, Graphic Design, numerical FEA analysis |
| Organisational skill * | Creating Psychological Safety for Diversed Team * |
| Feedback Skills * | Embedding Sustainability * |

## Additional Experience | Achievements | Activities | Community Engagement

**Ramboll Digitalisation Prize Nomination** - *parametric design tool for precast facade* - 2021
**MSc graduate with distinction** - Delft University of Technology (Global ranking #50 overall, #2 by subject, 2020)
**BSc graduate with distinction** - Polytechnic University of Technology
**Newcastle University** - (Aug 2020 to April 2021) - *Research assistant at Hub of Biotechnology for the Built Environment* - Develop material database concept - Assist in teaching and prototype designing
**Sorba project bv** - *Project Engineer (*Oct 2019 - July 2020)
**Isola che non c'è** - *Italian-to-Mandarin interpreter, conference facilitator - (*Jun 2017 - July 2017)
**Polytechnic University of Milan** - *Student assistant - (*Aug 2016 - Sept 2016)
**SD Partners Architectural Design Studio** - *intern architect - (*May 2016 - July 2016)
**PCNNC China Nuclear Power Engineering co.,ltd** - *architectural engineer intern - (*July 2014 - Sept 2014)
**Italian Embassy of Beijing** - *interpreter - (*2012)

## Education

University of Manchester, United Kingdom July 2019
Full-stack development bootcamp

Delft University of Technology, Netherlands — July 2019
Master of Science (MSc) Building Technology — With distinction
Honours program research (dissertation: Object-oriented geometry generative algorithm for lightweight, broadband 3D-printing acoustic absorber)
Graduation thesis: Topologically Interlocked Glass-brick Structure

Polytechnical University of Milan, Italy — July 2017
Bachelor of Science (BSc)  Building Architecture — With distinction