Heran Yang

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| Github: https://github.com/heranYang93/
| Portfolio: https://heranyang93.github.io/

Full stack web developer with background in design and engineering; life-learner; passionate about creating user-centric web-based service that can change the way we work and connect; innovative problem solver and a team player.

Projects

E-Babylon | The University of Manchester Coding Boot Camp

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

| Repo: https://github.com/heranYang93/babylon

Through a combination of an exceptional concept with great technological delivery through industry standard tools, the ebabylon app was created to meet the demand and maintain an ethos that bares close relation to that of popular shopping brands.The concept for this project was to create an e-commerce platform for brands, influencers and sellers that is open source and offers a valuable resource for the dev community interested in building an full-stack e-commerce app with trending and state-of-the-art technologies.

- Use React framework, (with MUI and MUI treasury) to create the app frontend.
- Create backend item schema (items in e-commerce website) as well as the features and functions to query and mutate items.
- Implement reducer and context to manage frontend data
- Implement IndexedDB to store persistent data; pulling data from indexedDB to the context to serve data to all components in the frontend
- Design the frontend interface
- Working on features such as 'cart', 'check-out', 'item page'

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

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)

Relevant Work Experience

Ramboll UK   May 2021
Till now
Graduate design engineer   Manchester, the UK
- Leading the development of internal digital tools (python, rhinoscriptsyntax)
  - With a team size of 4, we have developing geometric analysis and generative tool for modularising building components. My module is about descretising surface and implement customised rules to split the surface into constructible 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	Three.js
C#	jQuery	Express.js	Heroku
GitHub	Bootstrap	Node.js	GraphQL

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

Effective communication *	Mandarin (native), English(bilingual), 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	October 2021 - May 2022
Full-stack development bootcamp	Average: A+

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