Haejoon Choi

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Github: github.com/HaejoonChoi
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TECHNICAL SKILLS

- JavaScript
- TypeScript
- Node.js
- Angular
- Java
- Python
- C++
- C
- Linux
- Shell Scripting
- SQL
- Git

PROJECTS

ReStyle (github.com/ZedTT/team-03-COMP-2930) Apr – May 2019

- In a team of 5 made an interactive web application called ReStyle using Agile methodology.
- **Technologies:** Angular, Node.js, PostgreSQL, Sass, Git, Azure web service, Trello
- **Description:** Restyle allows users to easily trade clothes with other users. It promotes sharing and reusing of clothes that otherwise would be disposed. We kept best practices on git collaboration, had daily scrum meetings and maintained our Trello board to keep track of progress. Our team received great attention from the ECOCITY world summit officials; we are selected to develop the app further for ECOCITY world summit presentation in October 2019.

Taste Over Waste (github.com/paul923/Food-Waste) Jan – Apr 2019

- As a term project, a team of 3 people created a web application called Taste Over Waste.
- **Technologies:** Node.js, JavaScript, CSS, Firebase Auth, Firebase Database, Git, Trello
- **Description:** Taste Over Waste is a food waste management app which helps consumers reduce and manage their food waste at home. We utilized Trello and daily scrum meetings to manage backlogs and user stories.

PROFESSIONAL EXPERIENCE

Research Intern Aug 2017 – Feb 2018

General Motors R&D | Warren, MI, USA

- Non-linear Explicit FEA (using ABAQUS) of virtual tensile testing on various types of lattice structures for metal additive manufacturing.
- Utilizing linux-based HPC (High-Performance Computing) system, conducted simulations on a large set of lattice structures.
- Using Python scripting, automated simulation job file preparation, post-processing and data visualization of simulation results.

Haejoon Choi

EDUCATION

Computer Systems Technology Diploma (CGPA: 92%) Jan 2019 – Present

British Columbia Institute of Technology | Vancouver, Canada

M.S. in System Design and Control Engineering Degree Sep 2016 – Feb 2019

Ulsan National Institute of Science and Technology | Ulsan, S.Korea
Area of Study: Design for 3D Printing, Topology Optimization

B.S. in Mechanical and Advanced Materials Engineering Degree Mar 2010 – Aug 2016

Ulsan National Institute of Science and Technology | Ulsan, S.Korea

Lynda Courses May - Aug 2019

SQL Essential Training, Learning C, Learning TensorFlow with JavaScript

ACADEMIC HIGHLIGHTS

Conference Paper Aug 2019

American Society of Mechanical Engineering IDETC/CIE 2019 | Anaheim, CA
Title: Design of Non-periodic Lattice Structures by Allocating Pre-optimized Building Blocks
Authors: Haejoon Choi, Adrian Matias Chung Baek, Namhun Kim

Domestic Patent | S.Korea

Design method of using lattice structure generation algorithm (Patent pending)

LEADERSHIP ACTIVITIES

Founder & Chairman Mar 2012 – Mar 2013

UNIST "Mi Dam" Students' Community Service Organization for Scholarships

- Founded and ran a student organization that tutors local middle school students who can't afford private tutoring and raised funds to grant scholarships.
- Successfully began weekly tutoring consists of ~400 tutors/tutees; tutored students every weekend for the year of presidency.
- The organization was recognized by several local newspapers and I received an award for contribution to the honor of the school.

AWARDS & SCHOLARSHIPS

Altair Optimization Competition 2018 | Altair Engineering, Inc. (Korea) Sep 2018

Grand Prize **|** 4,000,000 KRW (~ 4500 CAD), International Internship Opportunity

Competition of 3D Printing Application | Korean Society of Manufacturing Technology Engineers Apr 2017

Grand Prize | Shindo DP200 3D Printer