

Xiaoying Chang

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OBJECTIVE

- Highly self-motivated personal seeking a software developer position.
- With full stack/React web app development, and large app platform modification experience.

SKILLS

Basics	<ul style="list-style-type: none">• Algorithms, Data Structures, Computer Networks, Web Development, Git, GitHub, Webpack
Languages	<ul style="list-style-type: none">• Java, JavaScript, Python, HTML5, CSS3, C, C++
Framework/Library	<ul style="list-style-type: none">• Bootstrap, jQuery, React, Redux, Express.js, Node.js, Mongoose
Platform	<ul style="list-style-type: none">• Firebase, AWS
Database	<ul style="list-style-type: none">• MongoDB, PostgreSQL

EXPERIENCE

2015.09 – present

Research Assistant

Carleton University, Ottawa, ON, Canada

- Proposed and simulated a collaborative search approach to locate physical objects, which saved 56.7% energy with the best search accuracy and time.
- Formulated two greedy algorithms to achieve the maximum sensing coverage, and most accurate object position localization.

2017.02 – 2017.07

Software Developer (Intern)

You.i TV, Ottawa, ON, Canada

- Designed and implemented a multithread server, reduced memory usage of existing huge singleton app platform by at least 13%.
- Proposed and applied “PerClientSingleton” method, which enabled multiple clients to be served in parallel with the least modification to the original engine code.

2015.09 – 2016.07

Software Developer (Intern)

Gnowit, Ottawa, ON, Canada

- Developed a novel web crawler to fetch contents from deep inside the domain based on use requirements at low time cost.
- Identified special characteristics of Rich Internet Application (RIA), which greatly improved existing crawler by fetching dynamically changing content.

PROJECTS

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| 2018.12 – 2019.01 | “BabyHaul” Full Stack Web Application (Personal Project) <ul style="list-style-type: none">• Created a web app to assist people in selecting popular baby products.• Built the app using Express framework; applied MVC design pattern; styled with Bootstrap4; set up RESTful routing; used Passport.js for authentication; managed data with MongoDB.• URL: https://babyhaul.herokuapp.com |
| 2018.05 – 2018.06 | “Spending” React Web Application (Personal Project) <ul style="list-style-type: none">• Created a React app to keep track of users’ daily spending and manage their financial budget.• Used React-Redux library to manage state, React-Router DOM for URL navigation. Set up authentication and data management using Firebase.• URL: https://spending-react.herokuapp.com |

EDUCATION

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| 2015.09 – current | Ph.D., Carleton University, Canada <ul style="list-style-type: none">• Major: Systems and Computer Engineering• Research Assistant in IoT search area• Grade: A+ |
| 2012.09 – 2015.02 | Master of Engineering, Beihang University, China <ul style="list-style-type: none">• Major: Electronic and Communication Engineering• Postgraduate National Scholarship (3%)• GPA: 89.0/100, rank: 7/93 |
| 2008.09 – 2012.06 | Bachelor of Engineering, Shijiazhuang Tiedao University, China <ul style="list-style-type: none">• Major: Electronic and Information Engineering• Hebei Province Outstanding Graduate (5%)• GPA: 87.4/100, rank: 3/200 |