Zhiren Zhan

Electrical and Computer Engineering

Creative and enthusiastic electrical and computer engineer with 2+ year programming experience. Seeking to work in the full stack or software engineer team.

Education

2016-09 - present

University of Toronto, Toronto, ON, CA
Third-year electrical and computer engineering.
CGPA: 3.83.
Rank: Top 20 in ECE.

Experience

2018-05 - 2018-08

Full stack engineering
Tsinghua Energy Internet Research Institution, Beijing, China
Responsibilities:
- Efficiently and professionally assisted senior engineer to build "Huatech Switch Analysis Web System" by using ReactJS, Dva and Ant-Design.
- Designed backend switch data analysis application using Golang for client.
- Maintained the daily operation of server and PostgreSQL database.
- Built connection between back-end and front-end.

2017-01 - 2017-04

Membership
Engineer Strategy and Practice group
Responsibilities:
- Devised Bike Rack for Toronto Harbor Village with other four first-year engineers.
- Computed the cost of design include manufacture and installation.
- Communicated with Harbor Village Association and Achieved the client's needs.
Achievements:
- Reduced the cost about 2000 dollar for client.
- Addressed the team conflicts.

Projects

2018-08 - present

Personal Web Server
- Built web server by ReactJS, Ant-Design and Dva for personal interest.
- Established Parse-API on server.
- Maintained the Amazon server and PostgreSQL database regularly.
- Upgraded constantly when I have spot ideas including games and applications.

2018-01 - 2018-04

C++ Project "Smart Guide Application"
- Leadership in team of three, algorithm designer.
- Developed a map guiding system by C++ language.
- Devised data structure and Implemented graph searching algorithms(A* and dijkstra).
- Created combination algorithm to calculate shortest path between multiple destinations.

2018-03 - 2018-04

Assembly Language Project "Robot Soccer"
- Team leader, Robot structure and control system designer.
- Created robot and soccer goal by Lego controller.
- Implemented control system on De1-Soc board.
- Connected FPGA board with input and output devices such as keyboard, VGA monitor and audio.

2017-11 - 2017-11

Game Project "Zero Hero 4"
- Team leader, Game and Algorithm designer.
- Devised rogue-like RPG game on De1-Soc board using handshake system.
- Developed the random number generator for game.

Personal Info

Address
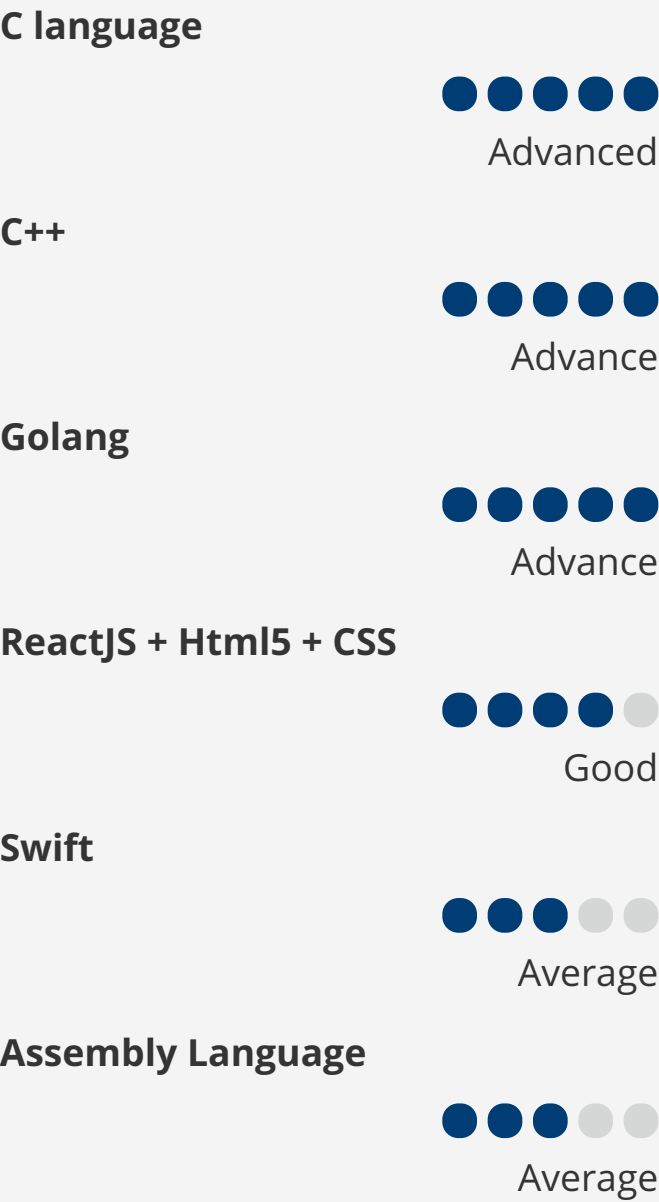#1709, 763 Bay Street, Toronto, ON

Phone
6479364713

E-mail
colorzzr@gmail.com

WWW
18.223.112.55:8000/#/

GitHub
https://github.com/colorzzr

Programming Language

C language
●●●●● Advanced

C++
●●●●● Advance

Golang
●●●●● Advance

ReactJS + Html5 + CSS
●●●●○ Good

Swift
●●●○○ Average

Assembly Language
●●●○○ Average

Skills

Leadership
●●●●○ Good

Creativity
●●●●○ Good

Enthusiasm
●●●●● Advanced