

Leichen Zhou

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EDUCATION

Northeastern University, Seattle, WA Master of Science in Computer Software Engineering	Expected May 2021
Beijing Institute of Technology, Beijing, China Master of Engineering in Electronics and Communication	Sep 2014 - Jun 2016
Beijing Institute of Technology, Beijing, China Bachelor of Science in Detect, Guidance and Control Technology	Sep 2010 - Jun 2014

SKILLS

Programming Languages: Java, Python, C, JavaScript, HTML, CSS, Verilog

Databases: MySQL, MongoDB

Frameworks & Tools: Spring (Boot, Data, MVC), MyBatis, JPA, Node.js, Express 4, Maven, Git, Junit

WORK EXPERIENCE

System Engineer - Institute of Automation, Beijing, China First Sun-light Back-end Platform	Jun 2016 - May 2019 Mar 2018 - Nov 2018
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- Delivered a real-time parallel-computing architecture for processing up to 128 input channels at 250 MPS
- Designed front programming to serialize parallel data, reducing approximately 93.75% occupant of the backend IO
- Implemented algorithm for channel calibration, which decreased output error to less than 0.2 microsecond
- Built end-to-end link through interface programming, supporting to data verification and real-time status update

YeeLink Controller	Oct 2017 - Jan 2018
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- Implement a web service collaborated with Raspberry Pi B+ to realize remote control
- Developed handler mapping with Flask to associate commands mapping with relative hardware resources
- Achieved visualization interface by integrating YeeLink Service API, as well as IOS app deployment
- Applied as general Join Test Action plugin for the digital platform, which can save about 80% cost

Hardware Software Developing Intern - Institute of Automation, Beijing, China	Mar 2016 - May 2016
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- Programmed Verilog to capture digital data from the frontend, parse into the key measurement targets
- Implemented transceiver code to verify connection, visualizing data by drawing the curve with Bit Error Ratio
- Designed new optimizing features for power/clock management and data distribution

PROJECTS

WeChat Order	Apr 2019 - Jun 2019
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An Online Business-to-Consumer Order Platform. **Back-end development: Spring Boot, JPA, MySQL, Tomcat**

- Built front controller with REST API to handle HTTP requests/responses, achieved data interaction
- Set up properties configuration, realizing customized language theme to help people in different backgrounds
- Developed persistent data storage interfaces with JPA and tested every repository service with Junit
- Implemented transaction algorithm and components to track the status of products, order, stock

YelpCamp - link / Github	Nov 2018 - Feb 2019
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A Social Review Community, where people can post and obtain opinions. **Full-stack development: Express, Node.js, HTML, Bootstrap, MongoDB, Github**

- Developed a responsive website, utilizing Bootstrap and JavaScript to realize layout and dynamic characteristics
- Implemented login security verification through Mongoose-passport, as well as session resolver for HTTP properties
- Designed table association and completed authorization algorithm for user data privatization
- Developed the project in AWS Cloud9 and deployed the web application with Heroku