

# Kedi Xia

Master of Science in Computer Engineering  
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## EDUCATION

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<i>University of California, San Diego</i>	Sept. 2019 – Jan. 2021
Master of Science, Computer Engineering	San Diego, CA
<i>Zhejiang University</i>	Sept. 2015 – June 2019
Bachelor of Engineering, Optoelectronic Information Science and Eng., <b>GPA 3.8/ 4.0</b>	Zhejiang, China

## PROFESSIONAL EXPERIENCE

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<i>Tencent (Wechat), Software Engineer Intern</i>	Jan. 2019 – May 2019
Skills: Python, C++, Tensorflow, Flask, Bazel, React.js, Bootstrap	Shanghai, China
<ul style="list-style-type: none"><li>Designed and developed deep learning and web APIs for Dialogue Technology Group</li><li>Built <b>RESTful API</b> using <b>Flask</b> for Text Summarization Module of Children's Encyclopedia</li><li>Created an interactive front-end interface for web service using <b>React.js</b> and <b>Bootstrap</b></li><li>Compiled <b>Tensorflow</b> library using <b>bazel</b> tool to host deep learning models</li><li>Developed slot filling models for book-ticket, story-play scenarios and improved accuracy by <b>20%</b></li></ul>	
<i>University of Victoria, Research Intern</i>	Aug. 2018 – Nov. 2018
Supervisor: Prof. Kwang Moo Yi, Prof. Hyung Jin Chang	Victoria, Canada
<ul style="list-style-type: none"><li>Resulted in a paper submitted to <b>IEEE Conference on CVPR</b></li><li>Proposed an optimization framework to automatically crop images based on user's captions</li><li>Designed a new loss function and put forward a stable optimization scheme</li></ul>	

## SELECTED PROJECTS

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<i><u>MyInsta - an Instagram-like Social Media Application</u></i>	Aug. 2019 – Sept. 2019
Python, Django, HTML/CSS/JS, SQLite, Ajax, Bootstrap, Heroku	
<ul style="list-style-type: none"><li>Developed a <b>RESTful</b> Instagram-like web application which allows users to share posts</li><li>Designed a user model and implemented <b>CRUD</b> functions using <b>Django (Python)</b></li><li>Refined and beautified user interface by employing <b>Bootstrap</b> Grid Template</li><li>Enabled the <b>dynamic display</b> of Comment/Like/Follow operations by <b>Ajax, Javascript</b></li><li>Deployed application on <b>Heroku</b> web server: <a href="http://www.my-insta.site/welcome">www.my-insta.site/welcome</a></li></ul>	
<i>Spring-based Class Registration System</i>	Sept. 2019 – Oct. 2019
Java, Spring/Sprint boot, Hibernate, React.js, Redux, MySQL, Maven, AWS	
<ul style="list-style-type: none"><li>Developed a full-stack class registration system that follows <b>MVC</b> pattern</li><li>Implemented signup, enrolling in class, dropping class modules using <b>Spring(Java)</b> framework</li><li>Set up an <b>ORM</b> database system with <b>Hibernate</b> and <b>MySQL</b> to manage class information</li><li>Built the frontend by <b>React.js, Redux</b> to enable users' effective interactions</li><li>Deployed the class registration system on <b>AWS RDS</b> and <b>EC2</b> web service</li></ul>	
<i>End-to-end Deep Learning-based Person Re-identification System</i>	Mar. 2018 – May 2018
Python, Keras, Opencv, Matplotlib, Pandas, Numpy	
<ul style="list-style-type: none"><li>Refined training strategy on person re-identification model, resulting in <b>15% higher</b> accuracy</li><li>Designed a user interface for re-identification result visualization</li></ul>	

## PROGRAMMING SKILLS

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- Languages:** Java, Python, C/C++, Matlab, HTML/CSS, JavaScript, shell
- Tools/Framework:** Django, Flask, Spring, Hibernate, React.js, Node.js, Angular, Git
- Database:** SQLite, MySQL