

# Shengjie Pan

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## EDUCATION & COURSEWORK

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**University of Michigan**, Ann Arbor, MI  
B.S.E, Computer Science Engineering

Sep 2015 - Apr 2017 (expected)

- GPA: 3.92/4.00
- Awards: Dean's List (Fall 2015, Winter 2016), University Honors
- Relevant Courses: Machine Learning, Database Management Systems, Data Structure and Algorithm, Operation Systems, Computer Security

**Shanghai Jiao Tong University**, Shanghai, China  
B.S.E, Electrical and Computer Engineering

Sep 2013 - Aug 2017 (expected)

- Awards: Academic Scholarship (top 10%), Dean List (2013, 2014)
- Relevant Courses: Discrete Mathematics, Programming & Elementary Data Structures
- Extracurricular Activities: Vice Minister of Student Union, Member at SJTU Volunteer Team

## INTERNSHIP

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**Software Engineer Intern**, *CNSI*, Lansing

May 2016 – Aug 2016

- Built Operations Management Portal which handles access requests for different databases and systems
- Used Spring MVC and Hibernate framework to develop the web application
- Designed data schema of the whole project and created data tables in MySQL
- Developed UI from conceptualization and detailed UI through implementation

## EXPERIENCE

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**Research Assistant**, *GEMS Lab*, Ann Arbor

Mar 2016 – present

- Research topic: multiple graph alignment by applying Locality-Sensitive Hashing on graph features
- Extracted structural features from directed and undirected graphs
- Applied different hashing functions on structural features and node attributes

**DataDialog**, *UMSI*, Ann Arbor

Sep 2016 – present

- Built an interactive visual analytic application which communicates data between expertise and non-expertise
- Utilized d3.js for visualization and created dynamic charts that allow multiple user events
- Develop a server with Socket.io in Node.js and implemented real-time data communication

**Stuffpass**, *Self Project*, Ann Arbor

Jan 2016 – Apr 2016

- Developed online selling platform and worked on backend in Javascript and frontend in React
- Implemented a chat server using socket.io and stored chat history in MongoDB
- Improved current search functionality using Apache Solr and allowed searches in categories and keywords

**MClicker**, *Mhacks 7 Project*, Ann Arbor

Feb 2016

- Designed an application for instructors to take quizzes via text message
- Utilized Twilio API to authenticate students and collect their answers
- Built a web interface to display the results

**Line-tracing Racing Car**, Shanghai

Sep 2013 – Dec 2013

- Led a team of four and built an automatic line-tracing car with Arduino board
- Programed an Arduino board to receive sensor inputs and control motor and servo
- Draw the car frame in AutoCAD and carve plastic board by laser-cutting

## LANGUAGE & SKILLS

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- Chinese (native)
- Python, Javascript, Swift, Java, HTML, CSS, SQL, C++, C, Matlab, Latex, OpenGL