# CHAOJI ZUO

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## EDUCATION

**Rutgers, The State University of New Jersey** 2018 - Present

*M.S* in Computer Engineering, Department of Electrical & Computer Engineering

*Grade GPA* 3.86/4.00

*Core Course:* Machine Learning, Artificial Intelligence

**University of Electronic Science and Technology of China** 2015 - 2019

*B.S* in Information and Software Engineering

*Grade GPA* 3.72/4.00, *Top* 8%

*Core Course:* Operating System, Compiling Technique, Software Architecture and Design Patterns

## EXPERIENCE

**Cyber-Physical Systems Group** Nov. 2018 - Present

*Supervised by Prof. Desheng Zhang and Dr. Zhihan Fang* *Rutgers*

- Doing data science research on **Human mobility** and **Cyber-Physical Systems**.
- Focusing on **data mining**, **data cleaning** and **visualization** on large-scale data.
- Using several routing algorithms and mobility models to simulate cars trajectories in cities.

**SAP Cloud Service Center** Jan. 2018 - Aug. 2018

*Front-end Developer Intern* *Chengdu, CN*

- Developed a cross-platform APP for Chery Automobile Co., Ltd. to manage their after-sale process and data using **React Native** and **React**.
- Did secondary development on SAP cloud **ERP** system **S/4HANA** and integrated Chery's former service provider.
- I finished the display and logical part of *Ticket Detail* and *user information*, *integrated ID recognition function* and *message push function*.

## PROJECTS

**Multilingual ASR data collection** Mar. 20119 - May. 2019

*Supervised by Dr.Shahab Jalalvand* *Undergraduate Capstone, Rutgers*

- Achieved **Web Crawling** on SBS News and WordProject to collect multilingual audio and corresponding transcript.
- Applied forced alignment on the transcript and audio based on **Kaldi** and **MFA Forced Aligner**.
- Our project won best capstone in research award and Top 10 capstone award.

**Stock Prediction Website** Mar. 2019 - May. 2019

- Built a Single-Page Application based on **Flask** and **MongoDB**.
- Created **RESTful** api to achieve web service.
- Supported several stock indicators and stock price prediction using machine learning algorithms such as SVM, Bayesian Curve fitting, etc.

**Data analysis on Blood data** Sept. 2018 - Dec. 2018

*Supervised by Prof. Umer Hassan* *Rutgers*

- Dealt with signals collecting from patients' blood. Did **data pre-processing** and **feature extraction**.
- Wrote algorithms to extract the **pattern** of those data. Figured out area, peaks and interval to represent each signal.

## SKILLS

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|---|---|
| Programming Language | Python, C/C++, JavaScript, Java |
| Other Related Skills | Geopandas, Scikit-Learn, React Native, SQL, HTML/CSS |