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# XUAN PENG • WUHAN UNIVERSITY • CHINA

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[callmebigben.github.io/about](https://callmebigben.github.io/about)

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## EDUCATION

- Major: Software Engineering, School of Computer Science, Wuhan University, 2016 – 2020.
- Overall GPA: 3.81 (ranked as 2<sup>nd</sup> / 57 in the third year).  
TOEFL: 108 (R:29, L:30, S:23, R:26)    GRE: 331(V:161, Q:170, AW:3.5).
- Related Courses: Software testing practice(99/100), Software Engineering(95/100), Principles and Construction of Compiler(96/100), Operating System(92/100), Pattern Recognition(97/100).

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## ACADEMIC EXPERIENCE

- **RNA Methylation Site Prediction Based On Machine Learning** Oct 2018 - Mar 2019  
Exploiting SMOTE(Synthetic Minority Over-sampling Technique) to avoid the over-fitting caused by the imbalance between positive & negative samples, we constructed a CNN-based model, which achieved a high precision with an AUC more than 0.9.
  - Model construction & optimization & web service construction.
  - Artificial Intelligence Laboratory, Wuhan University.
  - (Check out in <http://120.92.86.192:9021/rnamsp/index> if interested)
- **Towards Configuration Dependency In Multi-Component Software** Jul 2019 - Oct 2019  
In large multi-module software, users usually misconfigure the parameters in violation of inter-parameter dependencies, resulting in software crashing. Based on the study of Hadoop and OpenStack, we strived to implement a complete classification system for the inter-parameter dependencies. Meanwhile, based on their code patterns, we built an integrated inspection tool for different types of dependencies.
  - Pattern extraction with text mining & tool building with program analysis.
  - SysNet, the University of Illinois at Urbana-Champaign.

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## EXTRACURRICULAR EXPERIENCE

- Wuhan University "China Software" Summer Practice Team Leader Jun 2017  
In order to understand the quality and capabilities of the freshmen that software companies desire, my teammates and I conducted face-to-face interviews with the recruitment managers from the well-known software companies. I led my team in contacting, interviewing and finally text collating throughout the whole process.
- WHU movie display & voting platform Voluntary full stack engineer Sep 2019 - Oct 2019  
In order to better help campus movie broadcasters to display movie information and understand students' preferences, I took the initiative to develop the Wechat program for movie display & voting platform.

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## VOLUNTEER

- Education aid program for students in deprived areas Volunteer Jun 2017 - Jul 2017
- Electronic Product Assistance Program for the elderly Volunteer Sep 2017 - Sep 2018

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## HONOR

- National Inspiring Scholarship (2016-2019 three consecutive years).
- Wuhan University Excellent Student Scholarship (2016-2019 three consecutive years).
- National Second Prize (2/44), 14th Citi Bank Financial Information Innovation Competition in China.

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## PROFESSIONAL SKILLS & RESEARCH INTERESTS

- Language: Python, Java, JavaScript, C++.
- Platform & Framework: Linux, Flask, Soot, OpenStack.
- Interest: Broad System Area.