Junming Cao

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Education

M.Eng in Software Engineering | Shanghai Jiao Tong University 2018.9 -
Big data software engineering lab | Research direction: Bug localization Shanghai, China

B.Eng in Software Engineering | Shanghai Jiao Tong University 2014.9 - 2018.6
Main courses: Data Structures and Algorithms / Database / Data Mining / Computer system Shanghai, China

Research

BugPecker: Locating faulty methods with deep learning on revision graphs

Junming Cao, Shouliang Yang, Wenhui Jiang, Hushuang Zeng, Beijun Shen, and Hao Zhong.

The 35th IEEE/ACM International Conference on Automated Software Engineering (ASE 2020) CCF-A

- GOAL: Feature extraction and modeling / Matching and obtaining suspicious code fragments
- ROLE: As a leader in a group of 5 / Architecture designing / Project management / Code relations mining

CocoQa: Question Answering for Coding Conventions over Knowledge Graphs

Tainjiao Du, **Junming Cao,** Qinyue Wu, Wei Li, Beijun Shen*, Yuting Chen.

The 34th IEEE/ACM International Conference on Automated Software Engineering (ASE 2019) CCF-A

Internship

Backend Developer Intern 2020.5 - 2020.7
ByteDance Ad Platform Shanghai, China

- **CONTENT:** Designed and developed a new version of DOU+ (Douyin content heating tool) data statistics platform.
- **CHALLENGE:** In the case of real-time data synchronization, it is challenging to execute OALP queries in seconds.
- **ROLE:** I used Kafka to synchronize data in batch, and imported data into ClickHouse(a column based database for OLAP).
- **OUTCOME:** Used by lots of product managers and developers to analyze orders and activities in DOU+.

Developer Intern 2019.8 - 2020.1
Momenta Map Data Service Platform Suzhou, China

- **CONTENT:** Participate in the development of High Decision Map(HD Map) compilation system ***Nexus***, including indexing map elements spatially and providing searching/routing APIs for downstream autonomous car applications
- **ROLE:** **I** designed a distributed compiling scheme in map-reduce style, and proposed a subgraph merging algorithm based on gate connectors to handle the inconsistency problem efficiently during the parallel compiling.

Skills

Java (intermediate) C++ (beign)
Go (begin) Python (begin)

Honors

- CUMCM (China Undergraduate Mathematical Contest in Modeling 2018): National Second Prize in 2018
- MCM(Mathematical Contest in Modeling): Meritotious Winner in 2017