

# BOCHENG CUI

■ 83 Main St 7220 GSS, Durham, New Hampshire 03824  
■ (603) 617-9302 ■ noahcui@hotmail.com ■ <https://github.com/noahcui>

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## RESEARCH INTEREST

Distributed Systems, Cloud computing, Algorithm designing, real-time interactive systems

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## SKILLS

Programming languages: C, C++, Golang, Python, SQL, and Java

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## PROJECTS

### Extracting Amplicon Reads from a Whole Shotgun Metagenomic Dataset (Python, SQL, Shell)

GitHub: <https://github.com/noahcui/MCBS913-addiction>

- Designing, building, and maintaining the database.
- Created scripts and designed algorithms for sorting and sequencing.

### Sharded K/V storage system (Go, Python, Shell)

- Implemented a Raft protocol.
- Built a fault tolerant Sharded K/V storage system based on my Raft protocol.

### Distributed MapReduce (Go, Python, Shell)

- Implemented a Distributed MapReduce model.

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## WORK EXPERIENCE

### University of New Hampshire College of Engineering and Physical Sciences

Teaching Assistant.

Durham, New Hampshire

September 2021- Present

- TA for 1 ungraduated-level and 1 graduate-level CS courses. (System area)

### University of New Hampshire College of Engineering and Physical Sciences

Programming Assistance Center Consultant.

Durham, New Hampshire

September 2021- Present

- Programming Consultant, helping students with programming.

### University of New Hampshire College of Engineering and Physical Sciences

Computer Science Grader

Durham, New Hampshire

February 2021- June 2021

- Grade for 2 computer science courses.

### University of New Hampshire Dining Service

Food Serve Assistant - Student

Durham, New Hampshire

August 2020 - December 2020

- Worked in various positions based on University of New Hampshire dining hall needs.

### Intel China, Ltd.

Team leader

Qingdao, China

June 2015 - May 2017

- Lead a team to participate in the Excellent Student Program. Learned how to lead a team.

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## EDUCATION

### University of New Hampshire

M. S. in Computer Science

GPA: 3.42/4.00

Durham, New Hampshire

Expected by December 2021

### Qingdao University of Science & Technology

B.S. in Polymer Material and Engineering

Qingdao, China

September 2014 - June 2018