

# Boo Sung Kim

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## EDUCATION

**Dickinson College**, Carlisle, PA

Expected: May 2023

Bachelor of Science - Double major in Math & Computer Science

**Cumulative GPA: 4.0/4.0**

**Honors:** Dean's List 2019, The William W. Landis Memorial Prize for excellence in Mathematics, The Jane Hill Prize for excellence in Computer Science

**Relevant Coursework:** Object Oriented Programming with Java, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Computational Mathematics, Data Structures and Problem Solving, Tools and Techniques for Software Development, Computing Abstractions, Graph Theory

## SKILLS

<b>Proficient Languages</b>	Python 3, Java, LaTeX
<b>Technologies &amp; Environment</b>	GNU/Linux, Git, Vim, Eclipse, PyCharm
<b>Basic Understanding</b>	MatLab, HTML, CSS, C++
<b>Language Skills</b>	English, Korean, Chinese

## WORK EXPERIENCE

**Teaching Assistant**, Dickinson College Math and CS Department, Carlisle, PA Aug 2020 - Present

- Hired as a Teaching Assistant for Math Help Room, CS Help Room, MATH 171 Multivariable Calculus

**Quantitative Reasoning (QR) Tutor**, Dickinson College QR Center, Carlisle, PA Aug 2020 - Present

- Hired as a Quantitative Reasoning Tutor for Fall 2020

**Quantitative Reasoning (QR) Associate**, Dickinson College QR Center, Carlisle, PA Jan 2020 - Present

- Instruct students in MATH 170 Single Variable Calculus and MATH 171 Multivariable Calculus
- Host review sessions for major exams and weekly study sessions for homework and quizzes

**Phonathon Student Caller**, Dickinson College, Carlisle, PA Sept 2019 - Nov 2019

- Solicited donations for the Dickinson College Fund as a student caller

## PROJECTS

**4D Snake AI** July 2020 - Present

- Build a Machine Learning application that can win the 4D Snake game with Python and TensorFlow
- Research various Machine Learning algorithms that can optimize the program

**Dickinson Menu Bot**, GitHub Sept 2019 - July 2020

- Accumulated a userbase of 20 people
- Built a Java webscraping application that collects, formats, and emails the college cafeteria menu to students and faculty
- Created a fully automated system using a Raspberry Pi and crontab
- Experienced Object Oriented Programming, webscraping Java libraries, and basic shell scripting

**Personal Web Server System**, Website, GitHub, Article May 2020 - July 2020

- Accumulated a dozen blog subscribers
- Deployed a personal web server written using the LAMP stack (Linux, Apache, MariaDB, PHP)
- Installed various server security systems such as a firewall and SSL protocols
- Experienced various Linux ecosystems and tools: Debian, apt-get, vim, SSH, etc.

**Reddit Comment Responder**, GitHub June 2019

- Accumulated 100+ users and 300+ counts of usage within a month
- Implemented a Python webscraping application that replies to users on Reddit
- Utilized regex to recognize key phrases and a cloud platform to run the program on Reddit continuously

## LEADERSHIP & EXTRA-CURRICULAR

**Treasurer**, Math and CS Club, Dickinson College Sept 2019 - Present

- Handle funding received from the college and general financial information about the club
- Assist the club president in organizing meetings with professors

**Tech Section Writer**, Dickinson Science Newspaper Sept 2019 - Present

- Write tech articles about Artificial Intelligence for the Dickinson Science Newspaper

**Channel Founder/Creator**, Converge2Diverge, YouTube Jan 2018 - Present

- Write scripts, film videos, and edit footage for Math, Computer Science, and Physics themed videos
- Created 15 videos with 6,600 total views as of July 2020

**Club Founder/Leader**, Converge to Diverge, SHSID, Shanghai, China Sept 2017 - June 2018

- Coordinated club activities ranging from weekly meetings to school hosted math events
- Managed school budget of approximately \$150 to host math themed activities