

# Ket-Meng Cheng

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## Education

**Rochester Institute of Tech.,** Rochester NY *Exp. Grad: May 2020*

**Major:** B.S., Computer Science

**Major GPA:** 3.87 out of 4.0 (Fall 2017)

**Honors:** Dean's List

**Relevant Coursework:** Introduction to CS Theory,  
Mechanics of Programming,  
Introduction to Intelligent Systems,  
Advanced Data Structures and Algorithms,  
Systems Analysis and Software Design,  
Operating Systems and Computer Architecture,  
Computer Organization and Assembly Language.

## Experience

**CS Tutor** at Duquesne University *Jan. 2017 – May 2017*

- o Mentored students in Java, C++, and x86 Assembly.
- o Focused on fortifying fundamental concepts to develop a deep understanding of computer architecture along with various data structures, algorithms, and best practices.

**Waiter** at Wai Wai's Chinese Cuisine *Aug. 2013 – Aug. 2017*

- o Handled and supervised customer queries and communicated requests between upper management and the floor staff.

## Projects

**Contributed to WeBWork**, an open-source homework platform

- o Developed features that allows for integration with Blackboard (a course management system) and improved the overall user experience for teachers without experience in programming.
- o Supervised and contributed to an Agile development process.
- o Hosted and managed an operational WeBWork server that runs on the Apache HTTP server software.

**ImageKM**, an image segmentation program

- o Used a K-Means unsupervised clustering algorithm to segment images using RGB values as datapoints.
- o Utilized the numpy and scipy libraries in conjunction with linear algebra concepts.

**JPlace**, a Java-based rendition of Reddit's popular /r/place project

- o Designed and developed a multithreaded server that uses a thread-per-connection model to handle clients.
- o Used JavaFX to create a GUI that enables user interactivity.
- o Implemented MVC to design server-client interactions.

## Activities

**Principal Violist + Personal Manager** *Sept. 2012 – Aug. 2017*  
at Amadeus! Chamber Orchestra

- o Organized concerts, worked with venue owners to host events, and scheduled regular rehearsals with the members.

## Languages

Java	Skilled
X86 Assm.	Skilled
Python	Proficient
C++	Proficient
Perl	Familiar
MATLAB	Familiar
HTML/CSS	Familiar
JavaScript	Familiar

## Skills

- o Skilled in operating **Linux/Unix Systems**, using Arch Linux and Debian systems on a daily basis.
- o Proficient with the **bash shell**.
- o Able to write **bash scripts** to automate tasks.
- o Understands core concepts of Linux **system administration**.
- o Able to **diagnose network and system issues** on Linux systems.
- o Experienced in using the **Git** workflow.
- o Experience with the **Agile/Scrum** development process to develop a tangible product.
- o Avid and passionate **learner** and **doer**.