

# Keming He

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## OBJECTIVE

Software engineering student seeking internship applying back-end development, innovative problem-solving, and interpersonal skills, related to open-source technology, in a dynamic and proactive environment. Available starting May 2020; open to relocation.

## EDUCATION

### The Ohio State University

B.S. in Computer Science and Engineering | GPA: **3.930** (4.0 Scale)

- Proficient in **Java**, **Python** | Intermediate in **C# Scripting**, **Unix Shell Scripting**

Columbus, OH

May 2020

## WORK EXPERIENCE

### Genome Wisdom

Algorithm Engineer Intern

Beijing, China

May 2019 – Aug. 2019

- Analyzed company's ImmunoHistoChemistry computer-vision library built upon **Tensorflow and Keras**, researched and identified potential claims for patent, and **patented 4 algorithms**.
- Evaluated agile teammates' coding practices, reintroduced Python Enhancement Proposal (PEP) 8 style guidelines, implemented **automated API management system** using Sphinx-doc to improve efficiency.
- Provided labeling of **10,000+** lung cancer cells using QuPath for Convolutional Neural Network training on automated cell-segmentation program, summarized and **standardized company labeling guide**.
- Conducted literature review of **100+ English papers** from American Society of Clinical Oncology 2019 meeting on immunotherapy and biomarkers, provided **support** for development of future services.
- **Coordinated** the design, compilation, and printing of **company technology brochure** for Chinese Conference on Oncology 2019, **streamlined process** by working with interns from other divisions.

### Department of Computer Science and Engineering at OSU

Undergraduate Grader for CSE 1223 (Intro. to Java)

Columbus, OH

Aug. 2019 – Present

- Teach students of **all technical skill levels** and educational backgrounds in class of 40, provide **feedback** to students, and report to Graduate Teaching Assistant (supervisor), and Professor (manager) in **timely matter**.

## SELECTED ENGINEERING PROJECTS

### 2<sup>nd</sup> Place in Advance Energy Vehicle Poster Competition of ENGR 1182

Project Manager, Director of Research and Development

Jan. 2019 – Apr. 2019

- Produced **10+ iterations** of the main support frame using **SolidWorks** modeling and laser-cutting, organized per-class **scrum** meetings for budget review, achieved **50% less energy consumption** in final performance test.
- Developed additional **plug-and-play module** for real-time position display in C++ language, improved vehicle testing efficiency, discovered and **realized optimization potential** in original control program.

### Software Development Project of ENGR 1181

Main Programmer and Video Game Level Designer

Nov. 2018 – Dec. 2018

- Interviewed potential customers for indie games on PC, compiled and analyzed response; developed and presented **business plan** to class, and wrote **script** for final video game **trailer**.
- Formulated **combat system** to a 2D action-adventure game, led teammates to **prototype feature within one week**; **documented 11** meetings for entire product **pipeline**.

## HONORS AND SERVICES

AU19 International Freshmen Airport Free Pickup Service

July 2019 – Aug. 2019

- Facilitated the sign-up, match-making, and pickup process with OSU volunteer students, professors, and alumni.

TOEFL iBT: **110** | SAT: **1470/1600** | SAT Subject Test: Math II **800**, Physics **800**, Chemistry **800**