CHRISTOPHER KANG

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OVERVIEW

Goal-oriented student with a passion for helping others. Eager to learn and implement machine learning algorithms. Excited to join impact-driven teams with a commitment to improving others' lives.

EDUCATION

University of Washington, Paul G. Allen Center for Computer Science & Engineering **Seattle, WA**
Bachelor of Science in Computer Science September 2018 – June 2022
Direct Admit to the Computer Science program, entering with 90 AP credits
Recipient of a four-year tuition waiver from the Honors Program
Relevant Coursework (Present): CSE 143X • MATH 134

Hanford High School **Richland, WA**
GPA (UW): 4.0/4.0; Completed high school in three years as a valedictorian June 2018

WORK EXPERIENCE & PERSONAL PROJECTS

Pacific Northwest National Laboratory **Richland, WA**
Data Sciences Intern Summer 2018

- Studied and implemented Graph-Based Semi-Supervised Machine Learning described in *Neural Graph Machines (Bui, Ravi, & Ramavajjala 2017)* on a cybersecurity dataset
- Collaborated with professional sciences to design an efficient labeling algorithm
- Improved abilities with Python computation and machine learning modules (see *Skills*)

Expedition Einstein **Richland, WA**
Co-founder Summer 2017, 2018

- Launched a nonprofit elementary summer STEM camp for underprivileged youth in the community
- Resolved funding gaps by leading fundraising efforts, including the creation of an 18-page grant proposal, to facilitate raising over $1,000 from community groups
- Designed curriculum to match elementary-level STEM concepts, yielding over 30 hours of material
- Trained other counselors to effectively implement curriculum and teach students

Science Fair **Richland, WA**
Independent Researcher 2015-2018

- Pursued independent research throughout high school
    - 2017-2018: Designed evolutionary algorithms to enable translation of quantum gate sets
    - 2016-2017: Implemented Convolutional Neural Networks to quickly identify melanomas

LEADERSHIP ACTIVITIES

Key Club, *Vice President* May 2017-2018

- Designed an hour tracking spreadsheet, reducing the time spent inputting hours by more than 50%
- Collaborated with President to encourage volunteering; identified new volunteer opportunities
- Led and engaged with a 150+ member club, working to drive positive change in the community

Blood Drive, *Chair* October 2017, 2018

- Identified inefficient donor sign-up process and redesigned system to enable a greater volume of signups
- Exceeded blood donation goals by more than 10% while fully filling the available donor timeslots
- Awarded a scholarship through the American Red Cross High School Scholarship Program

ADDITIONAL INFORMATION

Honors: President's Volunteer Service Award (2016-2018), 4th place in Robotics and Intelligent Machines at the International Science and Engineering Fair (2017), 1st Mid-Columbia Science and Engineering Fair (2016-2018)

Skills, Experienced: Python, Numpy, Pandas, TensorFlow, Keras, Sci-Kit Learn, Microsoft Excel and Office suite, Windows/MacOS/Linux. **Basic**: HTML, CSS, JS, Django, Electron, Google AppEngine, Q#, PyQuil, QISKit.

Interests: High-Performance Computing, Quantum Computing, Data-Driven Algorithms, Macroeconomics