

## Kevin Yang

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### EDUCATION

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#### **The University of Texas at Austin, Austin, TX**

**08/2019 - Present**

*Bachelor of Science in Computer Science*

Relevant Coursework:

GPA: 4.0

- CS 312, Introduction to Programming
- CS 314, Data Structures
- CS 311, Discrete Math for Computer Science
- M 408D, Sequences, Series, and Multivariable Calculus
- CS 429 Computer Organization and Architecture
- M 340L Matrices/Linear Algebra
- CS 109 Computer Programming: Python
- SDS 321 Probability and Statistics

### EXPERIENCE

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#### **Intel Corporation**

**05/2020 - 08/2020**

*Software Engineer Intern*

- Wrote quality assurance checks in Python that check for consistency of data between timing models.
- Implemented and tested various machine learning classification algorithms in order to find and enable the most effective anomaly detection method for determining whether certain timing vectors pass based on given data.

#### **Science and Engineering Apprenticeship Internship Program**

**Applied Research Laboratories, The University of Texas at Austin, Austin, Texas**

**06/2019 - 08/2019**

*Student Researcher*

- Developed a template matching algorithm that enables an autonomous underwater vehicle to find and retrieve any specified object with only an image of that object
- Generated a threshold that determines whether a template image exists inside a source image and quantify the algorithm's sensitivity to zoom, rotation, and translation

#### **Cyber Security Intern**

**Administration and Service Division, Texas Department of Public Safety, Austin, Texas**

**06/2018 - 07/2018**

*Cyber Security Intern*

- Assisted the Department of Public Safety with cyber security configurations and setups
- Quarantined malicious emails and monitored suspicious user activities
- Implemented java-based programs to filter out and blacklist/whitelist certain domains on their firewall perimeter

#### **Get Ready! Summer Internship Program**

**Communications and Technology Management Department, City of Austin, Texas**

**06/2018 - 07/2018**

*Web Services Intern*

- Addressed the issue of an inefficient distribution of data on cheap gas prices towards consumers
- Developed a demo application in solving this problem of inefficiency
- Received "The Entrepreneurship Award" for our ambitious and successful project

#### **Mathematics Talent & Youth Academy, Austin, Texas**

**08/2015 - 05/2019**

*Grader*

- Graded Pre-Algebra, Algebra I, and Math Exploration homework and assembled a statistical report of each class's scores and questions missed

## ACTIVITIES & LEADERSHIP

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**HackTX 2020**

**10/2020**

### ***Competitor/Participant***

- Created an IOS application/Social Media platform called “PotLuck” that provides an interface to share your food experiences and influence what is recommended to your friends
- Developed this IOS application using React Native as the front end, Firebase for user authentication and data storage, Google Maps API for in-app map to find restaurants, and Google Cloud for the recommender system

**picoCTF - CMU Cybersecurity Competition Team “Warrior”, Austin, Texas**

**08/2018-05/2019**

### ***Vice-Captain***

- Collaborated with four other team members to construct solutions to break into vulnerable websites or security systems for the CMU Cybersecurity Competition
- Gained hands-on experience in the area of decrypting, hacking, programming, reverse engineering, etc..

**Canyon Vista Middle School(CVMS) Cyberpatriot Club, Austin, Texas**

**08/2018-Present**

### ***Technical Mentor***

- Promoted cyber security and online safety in middle school
- Mentored middle school teams to participate in the CyberPatriot National Youth Cyber Defense Competition
- Assembled lessons that focused on methods to deal with vulnerabilities on different operating systems

**Westwood High School CyberPatriot Open Division Team “Warrior”, Austin, Texas**

**08/2016-05/2019**

### ***Vice-Captain***

- Participated as a team for the CyberPatriot National Youth Cyber Defense Competition
- Organized weekly work meetings and assembled the competition strategy where each of the four members on the team were to specialize in a certain area such as Ubuntu, Windows 7, Windows 10, Packet Tracer, and networking basics.
- Evaluated and reviewed different vulnerabilities on Ubuntu, Windows 7, and Windows 10; and created solutions to mitigate these risks

**Westwood High School Computer Science UIL**

**08/2017-05/2019**

### ***Member***

- Competed in multiple invitational tournaments that involved both analyzing and creating java programs
- Attained knowledge on useful algorithms to solve essential prompts during competitions

## SKILLS

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**Computer Skills:** Proficient in Java Programming, C++, and Python

**Second Languages:** Fluent in Chinese

### **Certifications:**

- American Red Cross Lifeguarding/First Aid/CPR/AED Certificate
- Adobe Certified Associate in Web Authoring
- Introduction to Java programming Certificate UT Dallas Erik Jonsson School

## HONORS AND AWARDS

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- Outstanding Academic Achievement Award 2015-2019
- The Entrepreneurship Award: Recognized for having the most ambitious and successful project at the City of Austin Communications and Technology Management Department Internship 2018
- National Youth Cyber Defense CyberPatriot X Competition: Texas State Platinum Tier State Award 2018
- National Youth Cyber Defense CyberPatriot IX Competition: 1st Place Texas State Gold Tier State Award 2017
- ARM Computer Science UIL Invitational: 4th Place Team Award 2018
- Westwood Junior Varsity Tennis Team: District UIL 2nd Place Mixed Doubles 2015