Yuan Chen

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917 University City Blvd Apt D9, Blacksburg, VA, 24060

EDUCATION

Virginia Tech   Blacksburg, VA
Bachelor of Science, Major in Computer Science, Minor in Business; GPA: 3.36/4.0   *Expected May 2021*

Relevant Coursework: Software Design, Data Structure, Computer Organization, Human Computer Interactions, Computer Vision
Other Coursework: Calculus, Linear Algebra, Discrete Maths, Applied Combinatorics, Game Theory, Data Analytics, Machine Learning

SKILLS

- **Coding Skills**: Java, Python, C, R, MATLAB, SQL, LaTeX, C#
- **Technical Skills**: Excel, Inventor, Linux, GCP, GitHub, GitLab, Unity
- **Languages**: English, Mandarin

WORKING EXPERIENCE

Virginia Tech   Blacksburg, VA
Undergraduate Research Assistant   *April 2019 - Present*

- **openCV**: Pre-processed and labeled X-Ray images for training the neural network
- **MATLAB**: Developed algorithms for Object Detection using MATLAB.
- **TensorFlow**: Collaborated with teammates and developed a model to detect the keyhole within the additive printing system using Mask RCNN

PROJECTS

- **Student Manager Program**:
  - Implemented BST, Hash Table, Quicksort, Max-Heap Sort, Multiway mege and Replacement Selection using Java and Object-Oriented Design to complete a program ranking and sorting students with limited memory and high efficiency

- **Electric Scooter For Safe (ES4Safe)**:
  - Analyzed, designed and evaluated the UX and UI of ES4Safe, a mobile App which helps college students ride electric scooters safely on campus, using HCI techniques like wheel

- **Sea Urchin Spine Structure Visualization**:
  - Designed and implemented a VR program which help college students and visitor understand our research project in Unity to display graphics in Oculus Go using C#

PUBLICATION

Automatic Crack Detection and Analysis for Biological Cellular Materials in X-Ray In Situ Tomography Measurements
*Ziling Wu , Ting Yang, Zhifei Deng, Baokun Huang, Han Liu, Yu Wang, **Yuan Chen**, Mary Caswell Stoddard, Ling Li, Yunhui Zhu*

LEADERSHIP EXPERIENCE

International Student Association at Virginia Tech (VTISA)   Blacksburg, VA
Media Director   *March 2018 - Present*

- Developed and maintained Websites for the association hosted on Google Cloud Platform using HTML, CSS and JavaScript
- Provided Tech supports like setting up projectors, integrating softwares and services for events
- Maintained Social Media like Facebook, Twitter. Instagram using Word Processing Software and Video Editing Software

HONORS & AWARDS

- Dean's List, Spring 2018
- First Prize in the 29th National Olympic Biology Contest (Wuxi District), May 2015