# Runpeng Pan

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**EDUCATION**

**University at Buffalo**, Buffalo, NY
*Bachelor of Science*, Computer Science, June 2020

**PROJECTS**

**HAND GRIP GAME**:                                      JAN 2020 - JUNE 2020
- Hand grip sensors which generate inputs for game board coordinates
- Unity2D Game that player control a car to lever up and dodge projectiles
- Rehab test for stroke patient that detect hand strength and sustainability

**HAND TRACK GAME**:                                      NOV 2019 - PRESENT
- Hand tracing website game utilized multiple API: Handtrack.js, Mediapipe
- Teach computer with input from webcam to identify hands via ML
- Multiple hand tracking available and image identifying

**WEGMEN DIET**:                                      NOV 2019 - PRESENT
- Mobile App searching recipes based on user input
- Detailed recipes linked with Wegman food price and store locations
- WEGMEN API based app made in UB Hacking

**GRAPHICS ANALYSIS**:                                      SEPT 2019 - JAN 2020
- Performed 3D object rasterization, meshing, and ray tracing
- Viewport modeling via panning and zooming
- Modeling transformation such as scaling, rotation and translation

**SUDOKU SOLVER** :                                      MAR 2019 - APR 2019
- Using artificial intelligence algorithms to solve sudoku game
- Experience with Markov decision process
- Performed policy making in generating AI model

**UB HACKING GAME: LAVA PARKOUR**:                                      NOV 2017 - DEC 2017
- Attended University at Buffalo Hackathon.
- Innovative speech-based physics control game using Unity
- Designed theme-based adventure game with iterative level

**COMPUTER SKILLS**

**Languages**: C, C++, Java, ML, Bash, Assembly, SQL, LaTeX.
**Web Development**: HTML, CSS, JavaScript, Node.js, REST, Vue, Typescript
**Applications**: Vi/Vim, Eclipse, Visual Studio, Git, VMWare, VirtualBox, MySQL.
**Game Engine**: Android Studio, Unity, Unreal Engine, Phaser 3

**BACKGROUND**

**Languages**: Bilingual in English, Mandarin, Cantonese
**Environment**: Experienced in agile software development
**Add-on**: Driver License, Microsoft Word, PowerPoint, Excel