Benson Chau

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EDUCATION

- **Georgia Institute of Technology** — Atlanta, GA
  Bachelor of Science in Computer Science; GPA: 3.35 — *Aug. 2017 – May 2020*

EXPERIENCE

- **Georgia Tech Research Institute** — Atlanta, GA
  ICL Research Assistant and CIPHER Hardware Security Intern — *Nov 2018 – Aug 2019*
  - **ICL - Research Assistant**: Examining the capabilities of new RTX ray-tracing technology against the current state-of-the-art in the context of radio frequency signals in urban areas; created a pipeline for creating sample data and an OpenGL visualizer for CPU-based rendering, assisted in the development of an OptiX raytracer.
  - **CIPHER - Hardware Security Intern**:

- **Georgia Institute of Technology** — Atlanta, GA
  PACE HPC Intern and ACL Resarch Assistant — *May 2018 – Nov 2018*
  - **PACE - Lead Student Assistant**: Managed a team of student assistants in maintaining and building software for the computing cluster.
  - **PACE - Automation Scripting**: Developed bash scripts to automate building specific package configurations and to sync against remote repositories.
  - **ACL - Research Assistant**: Created an automated benchmarking suite for several types of neural networks against popular datasets.
  - **ACL - BitFusion**: Co-authored the BitFusion ISA paper (ISCA 2018) describing a dynamically composable architecture for neural network acceleration.

- **University of Georgia Small Satellite Lab** — Athens, GA
  Algorithm Developer and Student Researcher — *Summer 2017*
  - **Algorithm Developer**: Assembled a prototype structure from motion pipeline for 3D reconstruction processing on a CubeSat embedded system.
  - **Student Researcher**: Wrote a trade study on the practicality of structure from motion libraries for use on a CubeSat regarding computational complexity and design.

PROJECTS

- **CHIP8 Emulator**: Open source CHIP8 emulator created in Rust as an introductory hardware enthusiast project.