Chan Woo Kim

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EDUCATION

- **Williams College (Class of 2023)** — Williamstown, MA
  Expected B.A. in Computer Science, Mathematics, Philosophy; GPA: 3.75 — *Aug. 2019-present*
  Relevant Coursework: **CSCI 334** Programming Languages, **MATH 341** Probability, **MATH 355** Abstract Algebra, **MATH 351** Applied Real Analysis, **CSCI 237** Computer Organization, **STAT 202** Statistical Modeling, **PHIL 202** Modern Philosophy

- **Shanghai American School, Puxi Campus** — Shanghai, China
  GPA: 3.80. SAT 1550/1600. SAT MATH II/Physics 800/800 — *Aug. 2015 – June. 2019*

EXPERIENCE

- **EMERGENT SYSTEM — Studio of Joshua Frankel** — Williamstown, MA
  Deep Learning Engineer — *Oct 2019 - Present*
    - **Abstract Animation G.A.N.**: Developed a novel dynamic-length animation Generative Adversarial Network model for EMERGENT SYSTEMS, a creative animation by Joshua Frankel that premiered at Peak Performances alongside compositions of Julia Wolfe.
    - **Animation**: Generated 30+ novel animations using the model, few presented in EMERGENT SYSTEMS. Currently developing more advanced animation GAN models for the official online release.

- **Williams College** — Williamstown, MA
  Various Positions — *Dec. 2019 - Present*
    - **CSCI 237 Teaching Assistant**: Run T.A. sessions for students in need of help for content material/lab assignments in CSCI 237 Computer Organization.
    - **Alumni Fund Student Stewardship Specialist**: One of 4 selected students for this role to serve as an intermediary between the Alumni Fund office and the school's alumni. Communicate with alumni and donors as requested by Alumni Fund staff, including prompt responses to messages received. Assist with Alumni Fund and OCR events as scheduled.

- **Blueprint Education Shanghai (蓝图教育)** — Shanghai, China
  Software Developer Intern — *July 2019 - Aug 2019*
    - **WeChat Mini App (微信小程序)**: Developed a WeChat Mini App, a minimal app that exists in the WeChat ecosystem that significantly accelerates customer acquisition. The front-end was built using WeChat's XML system, API server with Node.js, and database using PostgreSQL. Held meetings determining the company's requirements, made proposals of designs, and legally registered the app in the system.
    - **Digital ACT**: The company was in the process of building their own digital mock ACT platform. Added upon existing beta testing platform that was written in Ruby on Rails and React.js, small features and bug fixes.

- **Edugo.ai** — Shanghai, China
  Full-Stack Developer Intern — *December 2017 - January 2018*
    - **API & Database Development**: Learned how to build back-end structures using Node.js, PostgreSQL, Docker, and general systems administration techniques. As one of the only two software developers at the time, my code in the last few weeks was pushed to production.
    - **The Design Sprint-GV**: The "sprint" is a 5-day process for answering critical business questions. As a brand new startup, they were undergoing major pivoting, and I took part of this process in ideation.

PUBLICATION & PROJECTS

- **"NtMalDetect: A Machine Learning Approach to Malware Detection Using Native API System Calls"** **(Intel ISEF 2018)**: https://arxiv.org/abs/1802.05412. **Awards:** $1000 Special Award From King Abdulaziz Foundation for Giftedness, $1200 Special Award From CAST China, 4th Place Grand Award for Systems Software.
- **Vind Maps LLC**: Startup Venture; Crowdsourced safety review platform (React Native, Node.js, PostGreSQL - PostGIS) on maps ; Developed real-time geolocation analysis technologies.

PROGRAMMING SKILLS

- **Languages**: C, Python (Tensorflow), Javascript (Node.js & React.js), PostgreSQL, Java, LISP

- **Technologies:** AWS, React, Docker