Alex Korman
alexkorman@gmail.com | 347.281.0978 | linkedin | github

## EDUCATION

Vanderbilt University Class of 2022
**GPA: 3.4, BS in Computer Science
              BA in Philosophy**
Minor(s) in *Engineering Management, Math*

## RELEVANT COURSEWORK

**CS:** Machine Learning with Deep Neural Networks  • Intermediate Software Design • Operating Systems • Full-Stack Web Dev. • Discrete Structures • Intro to MechE
**Math:** Linear Algebra • Differential Equations • Calculus I, II, III

## SKILLS / TOOLS

Python • C++ • JS • HTML • CSS • PyTorch • Tensorflow • Github • React / React Native • SciKitLearn •  Firebase • Numpy/Matplotlib/Pandas • AutoCad • Microsoft Business Suite

## EXTRACURRICULARS

• **App Developer at** Change++**, building software solutions for non-for-profits.** Programmed a *mobile application* for the Unheard Voices Project to *provide formerly incarcerated persons w/ a toolkit for adjusting and succeeding in life after prison.* Use React Native, JS, HTML, CSS, Firebase.
• *Fuel Our Heroes* provides PPE, ventilators, groceries, gas cards, childcare, and housing for the medical professionals. **Responsible for site maintenance, design, SEO rank (improved multiple pages). ~$260,000 raised as of today.**
•  Tikkun Olam Makers (TOM) **volunteer.** Designed a video game controller for a boy without feet or fingers using Autocad. Used a laser cutter to make the frame, wired Xbox controller to more accessible interface.
• Vandy Apps • **Cellist**, chamber music group

## INTERESTS

AI, MechE, comedy, cello and guitar, basketball (former D3 player), bouldering, cooking

## RESEARCH

**Robotics and Autonomous Systems Laboratory – Career Readiness in Virtual Reality Team**
Research Assistant | Sept. 2019 - Present | Nashville, TN
• Built program to clean/process E4 wristband physiological data + neural network that predicts stress in subjects with high accuracy/F1. Use Python, PyTorch, Matplotlib.
• Lab has built a virtual environment for people with autism to take interviews. My model detects stress in real time to inform the difficulty of the interviewer's future question.
• Developing eye fixation classifier (convolutional network)

**Abshire Faculty/Student Research Award**
Research Assistant | Jan 2019 - May 2019 | Walla Walla, WA
• Conducted deep reinforcement learning policy optimization, hypothesized methods for pre-seeding weights on neural networks in AIGym.

## RELEVANT EXPERIENCE

**Epistemic AI**
Machine Learning Intern | May 2020 – August 2020 | Remote
• Developed a series of few shot learning (very low training) NLP models to classify and organize biomedical research. ~75% validation accuracy on a 3-way 5-shot problem. Increases ~12% with slightly more training.
• Built package and CLI for embeddings datasets and training / evaluating models. Use Python, Sklearn, Pytorch, Bert transformers

**Google Computer Science Summer Institute**
Intern | July 2018 - August 2018 | Venice, CA
• Selected to participate in an intensive software engineering program taught by Google engineers covering full-stack web app development using Python, JavaScript, HTML, CSS, and Google AppEngine.

**Gapingvoid Culture Design Group**
Intern | June 2015 - Present | Miami, FL
• Wrote copy for the daily email (50,000+ subscribers). Notable readers include Tony Hsieh, Seth Godin, Dr. Leonard Schlesinger.
• Designed banner ads displayed in the daily emails of New York Times, Wall Street Journal, and other papers
• On-going special projects, copy writing and editing