HELEN K. GAI

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Education

- **The University of Texas at Austin**
  - Bachelor of Science in Computer Science; GPA: 3.9 (May 2019)
    - Coursework: Data Structures, Computational Intelligence in Games Research, Computer Organization & Architecture, Statistics, Discrete Math
    - Future coursework: Algorithms, Principles of Computer Systems
- **Skills**
  - Programming Languages: Java, HTML and CSS, Python, C
  - Software: Krita, SketchBook, Unity, Blender, Git

Work Experience

- **ERGOS Technology — IT Help Desk Intern** (Houston, TX; Summer 2016)
  - Lead professional phone/email conversations and remote desktop sessions with clients to troubleshoot and onboard workstations, servers, client agents, and hardware.
  - Organized company events including gaming tournaments, game/console sharing, food, and trivia + prizes.
- **Village Innovators — Engineering Intern & Design Prototyper** (Houston, TX; Summer 2013)
  - Performed cost-benefit analysis, quality testing, and prototyping of 4 wind turbines. Design was replicated in East Africa and now powers lightbulbs in Elburgon, Kenya.
  - Assisted in creation and monitoring of 6 week engineering program and recruited 50+ local youth to participate. Efforts allowed company to obtain $17,000 in funding from Laura and John Arnold Foundation.

Projects

- **Hackathon Participant** (2015-Present)
  - Austin Diversity Hack (Women Who Code) - Pavlov - classical conditioning application to train user to complete tasks on time
  - School's Out Hackathon - Centric - calendar application for Android with a unique wheel-based interface
  - Used HTML, CSS, Javascript for selected projects.
- **Evolutionary Music Generator** (2016)
  - Created a program in Java that generates and trains musical phrases to produce a melody pleasing to the ear.
- **Astronomy Proton Flux Research** (2015)
  - Performed data collection/analysis using Java of decades of proton flux rates and quantified their correlation with the appearance of sunspots. Created 10 page report to document findings.
- **Project Horizon — Development Team** (2014-2015)
  - Constructed a polystyrene payload with temperature / pressure / location sensors and GoPros. Launched payload into Earth's atmosphere with a 30 ft. weather balloon with the goal of collecting data and pictures from space.

Extracurricular Involvement

- **Association for Computing Machinery — Vice President of Human Resources** (Present)
  - Created organization's first college transition mentorship program between upperclassmen and incoming freshman.
  - Recruited new members, scouted and appointed operational officers, created team-building activities to boost member retention, and maintained positive atmosphere.
- **UT Department of Computer Science — Pod Mentor** (Present)
  - Mentored, engaged, and guided ~20 incoming freshman in Computer Science.
  - Assisted with transition into university, interview and career preparation, and course reviews.
- **Women in Computer Science — Lean-In Circle Member** (2015-Present)
  - Participant of a focus group to build leadership and teamwork qualities, share personal goals, and hold each other accountable to achieving those goals.

Accomplishments

- British Petroleum National Merit Corporate Scholarship Recipient (2015-Present)
- James E. Taylor High School — Salutatorian (ranked 2nd in class of 690) (2011-2015)

Additional Information

- Actively pursuing interests in 2D/3D animation, graphic design, and game design
- Languages spoken: English (native), Mandarin Chinese (intermediate), Spanish (beginner)
- Global background through growing up in England, Egypt, China, and USA
- Musical background in flute (11 years) and piano (8 years)