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# Geoffrey Jing

Student

Portfolio: [geoffreyjing.com](http://geoffreyjing.com)  
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## EDUCATION

**Carleton College, B.A. Computer Science, GPA: 4.0/4.0**

**Exp. Graduation: June 2025**

- **Coursework:** Data Structures, Software Design, Discrete Mathematics, Integral Calculus, Intro to CS

### Coursera Certifications:

- Algorithms Specialization, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Neural Networks & Deep Learning

**AIT-Budapest, Abroad Program**

**Exp. Graduation: December 2022**

- **AIT-Budapest, Study-Abroad Program in Hungary**

**August 2022 — Dec. 2022**

- **Coursework:** Theory of Computing, Data Science, Computer Graphics, Intro to Computational Biology, Mobile Software Development, Combinatorial Optimization, Applied Cryptography

## WORK EXPERIENCE

**Village | Full Stack Software Engineering Intern**

**June 2022 — Present**

*Ruby on Rails, GraphQL, React, Next.js, styled-components, Jira, Confluence*

*Remote*

- Designed and developed an email notification preferences feature integrated to Village API; improved user experience by effectively decluttering user emails, reduced spam and irrelevant emails by **85%** and increased customer satisfaction
- Finalized a design document for feature with proposed solution using Ruby Gems and expedited implementation in 2 weeks
- Starting frontend project in near future using React framework **Next.js**, updating and maintaining the B2B website layout

**Avantek.AI | Mobile Developer and Machine Learning Engineer**

**July 2022 — Present**

*Xamarin, Xcode, Android Studio, Tensorflow, NumPy*

*Fremont, CA*

- Used WordPress for web design and structuring content; managed system architecture and backend operations
- Built a cross-platform app planned to release this fall to **200+** users; implemented API for web & mobile applications
- Will train and build machine learning models with **Tensorflow** using 250k+ patient data to predict cardiovascular diseases

**Carleton College | Quantitative Research Center (QRC) Assistant**

**March 2022 — April 2022**

*Google App Script*

*Northfield, MN*

- Created **5** user-friendly webpages with data accessing features for the QRC used by **60+** faculty and students
- Ran and tested Google App Scripts code to process 3 large datasets from QRC and convert raw data to 10 intuitive and relevant graphs and charts, increasing analyzation efficiency and readability for supervisor use

## LEADERSHIP

**Carleton Robotics | Vice President and Software Engineer**

**Jan. 2022 — Present**

*Python, C++, Arduino*

*Northfield, MN*

- Spearheaded geotracking unit installation on electric kart; managed and oversaw team of 15+ mechanical and software engineers through biweekly meetings; executed decisions regarding autonomous vehicle architecture
- Implemented collision detection system of autonomous vehicle through Bluetooth and serial communications
- Used pysicktim to connect a Sick-Tim LiDAR to Python and retrieve information concerning distance

## PROJECTS

**InvestEd: Database-Backed Investment Education Website | [Code](#)**

**March 2022 — June 2022**

*Flask, SQL, HTML/CSS, JavaScript, pandas, Jupyter Notebook, Git*

- Created an investment simulator web application based on NASDAQ and S&P 500 stocks data that lets users choose differing investment strategies; offers a customized portfolio option for more in-depth performances of specific stocks
- Features 4 graphs and charts visualizing investment strategy performances generated with **matplotlib**, seaborn, and **pandas**
- Used **Flask web framework** and HTML/CSS/JavaScript to handle frontend (browser interface), and **SQL** and python for backend

**Silver Dollar Game | [Silver Dollar Code](#)**

**Jan. 2022 – Feb. 2022**

*Java*

- Created a Silver Dollar game and gained experience writing, compiling, running, and testing programs from scratch
- Practiced careful and detailed planning for starting large scale projects and received full marks and passed 100% of all test cases

## SKILLS

**CS/Technologies**

**Proficient:** Python, Java, HTML/CSS, Javascript, Flask, SQL & PostGreSQL, React, ~~ETX~~, Git, Ruby on Rails, GraphQL **Familiar:** C++, TensorFlow, pandas, MATLAB, Xcode, NumPy

**Soft Skills**

Creative Problem-Solving, Effective Communication & Collaboration, Business Acumen, Independence, Curiosity, Presentation Skills

**World Languages**

English(native), Mandarin (fluent), Spanish (professional working proficiency)

**Activities**

NCAA Division III Golf, Carleton Data Science, Carleton Debate, ICPC Participant, Carleton CS Tea

**Interests**

Entrepreneurship, AI/ML, iOS Apps, Robotics, Computer Vision/Graphics, Human-Computer Interaction