

JANE DU

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Class of 2019

- B.S. in Computer Science, Minor in Electrical and Computer Engineering
- Current GPA (Fall 2015 – present): 3.83
- Current and past courses: Machine Learning, Artificial Intelligence, Graduate Algorithms, Honors OO, Operating Systems

RESEARCH & PUBLICATIONS

Research Assistant, with Professor Kilian Weinberger, Cornell University, Ithaca, NY

Aug 2017 – present

- <https://acarank.herokuapp.com/rank/>
- Develop reading recommender for papers from large conferences based on reader interests
 - Use sequence modelling to measure similarity between research papers
- Design and implement a website ranking academic institutions based on h-index rather than paper quantity
- Collect, verify, and clean data from Allen Institute's Semantic Scholar database and DBLP databases

Self-Navigating Robots Use BLE, *Circuit Cellar*

December 2018

- <https://janezdu.github.io/files/self-nav-robots.pdf>
- Design and construct a pair of robots that search for a beacon using Bluetooth RSSI
- Design and program the navigation algorithm for robots to progress towards beacon
- Schematic design and PCB construction, firmware, and CAD

Research Assistant, with Professor John Hopcroft, Cornell University, Ithaca, NY

Aug 2017 – present

- Examine simple deep learning networks to study the dimensionality of activation vectors
- Design and implement simple models in MATLAB and Python

ELI Undergraduate Research Award, Cornell University, Ithaca, NY

Oct 2016 – May 2017

- Design a system that can better harness renewable energy sources in urban environments
 - Goal: dampen fluctuations in energy generated by clean sources using capacity of electric vehicle batteries not in use

WORK EXPERIENCE

Course Consultant for Honors OO and Data Structures, Cornell University, Ithaca, NY

Aug 2016 – December 2017

T.A. for Mathematical Foundations for Informational Age, Cornell University, Ithaca NY

January 2018 – present

T.A. for Principles of Artificial Intelligence, Cornell University, Ithaca NY

Aug 2018 – December 2018

- Prepare and revise course material, such as homework questions and solutions and tools for student use
- Aid students in design and implementation of project assignments in office hours and online (Piazza, email)
- Grade assignments and examinations, including creating tools for automating grading assignments

Software Development Intern, Microsoft, Redmond, WA

May 2018 – Aug 2018

- Automate the collection and compilation of performance logs from Universal Store microservices for use in holiday load forecasting
- Leverage Azure WebJobs, Azure Active Directory, and Azure Functions for automatic data collection

Software Development Intern, Geotab, Oakville, ON

May 2016 – Aug 2016, May 2017 – Aug 2017

- Write scripts to automatically create virtual machines as development environments and per-person build servers
- Work with Big Data (BigQuery) and Google Datalabs to summarize and visually present build server status

EXTRACURRICULARS

Cornell Mars Rover Project Team, Electrical Controls Team Member, Ithaca, NY

Sep 2015 – present

- Publicly available codebase: github.com/CornellMarsRover/CMR_PIC32_code
- Program firmware (in C) on microcontrollers for controlling the Mars Rover's wheel and arm motors
- Design schematics and populate PCBs inside electronic core of rover

ADDITIONAL SKILLS

- Natural Languages: advanced Mandarin Chinese and French, familiarity with German.
- Languages: Java, Python, C#, C, OCaml, MATLAB, JavaScript, SQL