Lucas Chen

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Education

Cornell University, **College of Engineering**   **Ithaca, NY**
Master of Engineering, Computer Science   Jan 2019 – Dec 2019 (expected)
Bachelor of Science, Computer Science, Major GPA: 3.70/4.00   Aug 2015 – May 2019

- **Coursework:** Algorithms, Data Structures, Discrete Math, Functional Programming, Machine Learning, Operating Systems, Computer Architecture/Systems Programming, Unix Tools & Scripting
- **Teaching Assistant:** Graded course assignments and exams for CS 4820 (Algorithms) in Spring 2018 semester. Held office hours to instruct students in algorithm design techniques.
- **Activities:** ACM Programming, Association of Computer Science Undergraduates
- **Awards:** Rawlings Cornell Presidential Research Scholar, Dean's List

Work Experience

Software Engineering Intern | Uber Advanced Technologies Group   **Sep 2018 – Current | Pittsburgh, PA**

- Working on the Maps team - implementing core map features and their protobuf serializations as well as integrating the map conversion tool into an orchestrated pipeline.
- Attaching metrics to map priors & features, ingesting them into Hive via Kafka, and creating a dashboard for metric visualization.

Software Development Engineer Intern | Amazon   **Jun 2018 – Aug 2018 | Seattle, WA**

- Worked on the AWS EC2 team, improving the signing tool and automating infrastructure deployment for the service.
- Developed an email service to automate the auditing of signing tool usage and the reporting of metrics.

Software Engineering Intern | Foxconn Technology   **Jun 2017 – Aug 2017 | Irvine, CA**

- Designed a scalable e-commerce platform from the ground up to improve consultant communication with customers.
- Wrote Magento application modules in PHP to integrate e-commerce database with SAP backend.
- Created a RESTful webservice using Flask with CRUD operations to track user data analytics.

Undergraduate Researcher in Machine Learning | Cornell University   **Sep 2016 – Current | Ithaca, NY**
Principal Investigator: Prof. Kilian Weinberger

- Implemented collaborative and content-based recommender systems to suggest classes for students.
- Maintained DenseNets – a CNN with a dense connectivity pattern - and optimizing it to require less memory and improve runtime performance.
- Ported DenseNet to tinyCNN, a deep learning framework to be used on mobile devices and embedded systems.

Projects

Text Summarization Using Ensemble Techniques on CNN/DailyMail

- Text summarization with a seq2seq model in PyTorch, using a bidirectional RNN encoder and a unidirectional LSTM-RNN decoder with attention and beam search.

ASCII-Chat

- Terminal-based peer-to-peer, end-to-end-encrypted multi-user video chat application with text messaging support, employing MVC design and built using the OpenCV library.

Relevant Skills

Programming Languages: Java, Python, C++, C, OCaml, Bash, PHP, SQL, MATLAB
Web Development: HTML, CSS, Bootstrap, Jekyll, Nginx, Apache
Tools and Frameworks: Git, Linux/Unix, AWS, Flask, Vim, Eclipse, IntelliJ