JEANNE LUNING PRAK

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WORK EXPERIENCE

Summer 2018

SOFTWARE DEVELOPMENT INTERN

Jane Street Capital, New York, NY

- Updated a pricing server and clients using careful versioning techniques in OCaml
- Designed and implemented a new interface for the Incr_dom OCaml web development framework

Summer 2017

SOFTWARE ENGINEERING INTERN

Facebook, Menlo Park, CA

- Used React Native extensively with navigators, Relay, and Flux to add multiple features to the Ads Manager App.
- Worked on GraphQL backend and wrote unit tests using Jest.

2016-2019

TEACHING ASSISTANT

Carnegie Mellon University, Pittsburgh, PA

- For 15-150: Principles of Functional Programming, 15-312: Foundations of Programming Languages, and 15-317: Constructive Logic
- Taught labs and recitations, held office hours, wrote recitation notes, and created and reviewed homeworks

Summer 2016

FACEBOOK UNIVERSITY INTERN

Facebook, Menlo Park, CA

- Created an iOS app using Swift that connected to multiple REST APIs and incorporated a content ranking system

LEADERSHIP EXPERIENCE

Fall 2017

COURSE INFRASTRUCTURE

Carnegie Mellon University, Pittsburgh, PA

15-150: Principles of Functional Programming

- Made major course infrastructure decisions and managed TA use of course infrastructure
- Wrote a variety of scripts in Python and Bash that managed autograding, course publishing, etc.
- Managed a team of 5 TAs who set up assignments and published solutions and grades.

RESEARCH EXPERIENCE

2017-2018

BINAH

Carnegie Mellon University, Pittsburgh, PA

- Helped implement Binah, a tool to statically verify privacy policies and invariants at the application-database boundary in the Haskell Yesod web framework.
- Explored verifiable properties of web applications, and verified invariants on the Yesod Handler monad.

EDUCATION

Carnegie Mellon University
B.S. in Computer Science
3.73 QPA
Graduates May 2019

SKILLS

Computer Languages
Python, JavaScript, C, OCaml, SML, Haskell, Swift, Java, PHP, MySQL, Visual Basic

Applications
Git, Mercurial, Emacs, Vim, Android Studio, Xcode, Weka

COURSEWORK

15-122 Principles of Imperative Computation

15-150 Principles of Functional Programming

36-217 Probability and Random Processes

15-251 Great Theoretical Ideas in Computer Science

15-213 Introduction to Computer Systems

05-434 Applied Machine Learning

15-381 Artificial Intelligence

15-312 Foundations of Programming Languages

15-411 Compiler Design

15-451 Algorithm Design and Analysis