# KEUNWOO PETER YU

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## EDUCATION

**PRINCETON UNIVERSITY** **Princeton, NJ**
***Bachelor of Science in Engineering in Computer Science*** **June 2013**
***Cum Laude, Member of the Society of Sigma Xi***

- **GPA: 3.5**
- Coursework: Data Structures, Algorithms, Operating System, Computer Network, Compiler, AI, Machine Learning, Data Analysis, Information Security, Economics, Financial Investments

## SKILLS

- **Programming**: Proficient in Python, Golang, Javascript, Typescript, Scala, Java, PHP
- **Languages:** Native Korean, Intermediate Japanese
- **Hobbies:** Judo (2nd degree black belt), Soccer, Skiing

## PROFESSIONAL EXPERIENCE

**ASAPP, INC.** **New York, NY**
***Senior Software Engineer*** **Aug. 2017 – Mar. 2019**
***Lead Software Engineer*** **Apr. 2019 – Sep. 2019**
***NLP Researcher*** **Oct. 2019– Present**

- Refactored a monolithic server into microservices communicating over protobuf-based RPC calls and an AMQP message queue to scale real-time chat message delivery and support more resilient websocket connection handling.
- Developed a named entity recognition model library based on research into state-of-the-art models to serve as the standard throughout the company.
- Improved the deployment system to deliver true continuous integration and deployment.
- Developed and deployed a set of microservices to support the "omni-channel" chat experience where customers can chat using their preferred communication channel, e.g. Apple Business Chat, push notifications, SMS, etc.
- Conducted research in proprietary, multi-lingual customer intent classifier.
- Mentored junior developers through the onboarding process.

**ETSY, INC.** **New York, NY**
***Software Engineer*** **Nov. 2016 – Aug. 2017**

- Developed and launched Guest Checkout, a critical project that added millions of dollars to Etsy's global merchandise sales.

**DWNLD, INC.** **New York, NY**
***Software Engineer*** **Mar. 2016 – Nov. 2016**

- Developed and maintained an API written in Scala (Finch, Finagle) that allowed mobile apps to make purchases using Google In-app Billing.
- Extended a Rails API to add new features such as in-app authentication.
- Wrote and deployed a number of big data analytics job using Celery, RabbitMQ, Spark and HBase.
- Developed and maintained an internal web app (Scala Finch, Postgres, Slick) that allowed employees to tag images with predefined characteristics to construct a data set that would be used to train a machine learning model.

**APPNEXUS, INC.** **New York, NY**
***Software Engineer*** **Jul. 2013 – Oct. 2015**

- Implemented a Kubernetes-like system to integrate Docker to AppNexus' cloud system.
- Developed, automated and maintained a system that rapidly generates clones of the production system that can be used as sand box environments by developers and external clients.
- Developed a proprietary configuration system similar to Puppet's Hiera.
- Managed a summer intern to successful completion of his project.
- Developed and maintained tools to manage AppNexus' cloud system, including a job scheduler and a server management web application.

**FACEBOOK, INC.** **Menlo Park, CA**
***Software Engineer Intern*** **Jun. 2012 – Aug. 2012**

- Worked as an intern on a team that develops internal tools for Facebook employees
- Contributed to search indexing, developing Open Graph applications from scratch and improving internal PHP applications.
- Utilized the whole stack of Facebook code base: database abstractions, PHP server code, HTML, CSS and Javascript

**KYRUUS, INC.** **Boston, MA**
***Software Engineer Intern*** **Jun. 2011 – Aug. 2011**

- Contributed to the authoring, testing, and operationalization of over 30 unique web crawling and parsing scripts in Python
- Designed and implemented an enhancement to the core Postgres-SQL database schema to efficiently represent novel first-class entities
- Supported business users by creating intuitive, prompt-based programs for navigating through complex data, e.g. Google Analytics Data