Kevin Renner

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
BS in Computer Science
May 2018 | Champaign, IL
College of Engineering
GPA: 3.27 / 4.0

LINKS

Github:// **ProPorygon**
LinkedIn:// **kevin-renner**

SKILLS

PROGRAMMING
Proficient:
Python
Javascript
Java
C

Familiar:
Scala
C++
GoLang
SQL

LIBRARIES, FRAMEWORKS, TOOLS
Django
GraphQL
Kubernetes
Helm
Pulsar
Flask
Node.js
Express.js
Git
Jenkins
GDB
Maven

COURSEWORK

Algorithms
Distributed Systems
Software Engineering
Systems Programming
Database Systems
Data Structures
Computer Architecture
Computer Security
Virtual Reality

EXPERIENCE

PETUUM | Software Engineer
June 2018 - Present | Pittsburgh, PA
- Primary maintainer of the core library and service for building data flows on Petuum's distributed machine learning platform.
- Developed API-level representation of batch and streaming data flow graphs.
- Improved product security by integrating service API components with the platform's role-based access control system.
- Eased project maintenance by building an API for creating and updating graphs declared in yaml files.
- Enabled easier project sharing and deployment by creating an API to export and import data flow graphs on the platform, along with any project dependencies.
- Identified sources of slowness on the platform by profiling execution performance via timing utilities and flame graphs.
- Improved test quality in the library's repository by mocking out remote API calls.
- Deployed service via Helm on Kubernetes.

FLIPWORD | Software Engineer Intern
June 2017 - August 2017 | Palo Alto, CA
- Improved user experience by implementing a new UI redesign in the Chrome extension's popup quizzes.
- Improved reusability of UI through the creation of a shared UI library.
- Created new backend APIs for the application using Node.js and the Express framework.
- Added additional interactivity to the product by developing a system that allows users to create and share audio recordings, automatically graded using Google's Speech API.
- Improved developer experience by refactoring code to be cleaner, more readable, and use more modern features of Javascript (ES6 and ES7).

AGRIBLE | Backend Web Developer Intern
May 2016 - December 2016 | Champaign, IL
- Worked on Django backend for Agrible's *Morning Farm Report* website.
- Improved site performance by implementing a Redis caching solution.
- Improved quality control checking on data input by designing a system to interact with stored data through Google Drive APIs.
- Developed solutions to import and map data from other companies' APIs to Agrible's data schema.
- Saved AWS S3 storage costs by creating an automated system to remove old and unused data.

PROJECTS

LOOKNOTE | HackIllinois 2016
Spring 2016 | Champaign, IL
- Created a smart note-taking system which can retrieve data automatically from Wolfram-Alpha and add it to notes.
- Collaborated with two team members to build LookNote using Node.js and Electron.
- Won award for best use of Wolfram's API.