

Goki Gnanendran

goki@psu.edu

goki.me

github.com/gq1n

EDUCATION

Expected May 2021 **Pennsylvania State University**

B.S. Computer Science

Minors in Mathematics and Physics

Schreyer Honors College

GPA: 3.99/4.00

EXPERIENCE

Aug – Dec 2019 **Pennsylvania State University EECS**

Swift *Teaching Assistant*

University Park, PA

SwiftUI Facilitated CMPSC 475: iOS Development. Held office hours to assist students with debugging and application design. Graded weekly assignments. Prepared and presented lectures on topics of my interest: SwiftUI and Combine framework.

bash
git

Jun – Aug 2019 **Appian Corporation**

Go, Python *Software Engineering Intern*

Tysons, VA

Kubernetes Developed unified monitoring solution for Appian microservices. Refactored site discoverability to reduce query times 1000x. Automated testing and deployment of Prometheus metric collectors. Planned design and proof-of-concept for HA global metric system.

Thanos

Previously *Visiting Intern at Shenzhen Dexinhai Technology Co. Ltd.* (2019)

Research Assistant at PSU Mobile Computing and Networking Lab (2018)

Student at 42 (2018)

PROJECTS

Aug 2019 – Present **Penn State Advanced Vehicle Team Autonomy**

C, bash, Python
linuxcan, redis

Designed and built base computer system for multi-year autonomous vehicle development. Uses commodity hardware, open source protocols, and a translation layer to enable flexibility and expandability.

Oct 2018 – April 2019 **Visualizing Consensus**

React.js Developed [an interactive network simulation](#) to visualize the double spend problem and [an explorable blog post](#) to explain the motivations behind decentralizing payment networks. Initiated at ETHSanFrancisco and ETHDenver.

d3.js

Feb – March 2017 **glanceable.me**

Node.js Designed a service which generates a mobile lock screen wallpaper displaying a *glanceable* class schedule. Accessible from LionPATH mobile in just two clicks and used by 100+ Penn State students.

AWS

COURSEWORK, SKILLS, & INTERESTS

Verilog Linux Arduino Sketch Computer Networking Stochastic Modeling

FPGA Programming Machine Learning Distributed Systems Comm. Systems

Computer Architecture Explorable Explanations Data Structures & Algorithms