

Andrew Beams

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EDUCATION

University of Pennsylvania, Philadelphia, PA

PhD in Computer Science
August 2019 - Present
Current GPA: 4.0/4.0

- Teaching Assistant for the graduate course CIS551: Computer and Network Security in Fall 2020
- Member of the Distributed Systems Lab, Security Group, and Zero Knowledge Proof Reading Group
- Relevant cryptography coursework includes graduate courses in Cryptography, Advanced Topics in Privacy and Anonymity, and Advanced Topics in Cryptography
- Relevant machine learning coursework includes graduate courses in Machine Learning and Big Data Analytics

University of Alabama, Tuscaloosa, AL

Bachelor of Science in Computer Science
August 2016 – May 2018
GPA: 4.0/4.0

- Recipient of the Outstanding Senior Award in Computer Science
- Teaching Assistant for the undergraduate course CS101: Fundamentals of Computer Science II in Fall 2017
- Member of Upsilon Pi Epsilon, National Honor Society for Computer Science

EMPLOYMENT

Southwest Research Institute, San Antonio, TX

June 2018 – July 2019

Analyst (Software Engineer)

Worked on a big data project for management and optimization of transportation technologies. Designed and developed the back-end and front-end services for authentication, fine-grained authorization, and system-wide notifications. Also designed the monitoring service. Technologies used included C# (Dot Net Core), Javascript (Angular), OpenAPI, Redis, Microsoft SQL Server, Elastic Stack, Docker, and Kubernetes.

Center for Advanced Public Safety, Tuscaloosa, AL

March 2017 – May 2018

Student Developer

Designed and developed a generic, extensible authentication and authorization system, utilizing Identity Server 4 along with the extensive dependency injection capabilities available in Dot Net Core. Created multiple plugins for the system, including adding functionality for authenticating users against Active Directory as well as supporting Two Factor Authentication via Google Authenticator.

SKILLS

Language – Business Fluent in Japanese (JLPT N1)