# Kristoffer Selberg

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## EDUCATION

**PRINCETON UNIVERSITY**                                                      **April 2025**

*Bachelor of Science, Computer Science. GPA: 3.7*

*Courses*: Algorithms and Data Structures, High-Tech Entrepreneurship, Electronic Commerce, Advanced Linear Algebra with Applications, Programming Systems, Advanced Programming Techniques

## EXPERIENCE

### QATAR COMPUTING RESEARCH INSTITUTE (QCRI)

**Cybersecurity Intern**                                               **May 2021 - July 2021**

- Trained and tested a semi-supervised deep learning approach to outlier detection and generation (WALDO) on deepfake detection (**PyTorch, Python**)
- Trained models on large datasets with Cloud GPUs
- Summarized 40+ deepfake detection research papers in a literature review outlining methods and benchmarks for Convolutional Neural Networks (CNNs), Generative Adversarial Networks (GANs), ensemble networks, etc.
- Received 1st place out of 31 final presentations of results from summer interns

### PRINCETON UNIVERSITY COMPUTER SCIENCE DEPARTMENT

**Lab Teaching Assistant for Fundamentals of Computer Science**       **January 2022 - March 2022**

- Assisted students in completing programming assignments, building technical communication skills in concepts including recursion, linked lists, and OOP (**Java**)

## PROJECTS

### SIAM Journal on Applied Mathematics Research Paper

- Implemented Monte Carlo simulations to develop an optimal pit stop schedule for different shipping corridors and Markov chains to predict future adoption of electric trucks (**MatLab**)
- Won 2020 MathWorks Math Modeling Challenge (first/3500 students nationwide) in a team of 5

### The Tiger Inn Website

- Built web app for university club management with user and admin functionalities and added real-time content updates, log-in, password protection, and scheduling API (**HTML, CSS/Bootstrap, JavaScript, Flask, Python, Calendly API**)

### Pine View School Alumni Website

- Built web app for high school alumni to register, connect, and view others' biodata
- Added search, data validation, and filter features (**HTML, CSS/Bootstrap, Django, Python, Jinja**)

### TikTok Creator

- Created a TikTok profile and grew it to 50,000+ followers in 21 days
- Post videos focused on nonfiction books and self-improvement with 165,000+ followers