

Nathan C. Beck

Streator, IL | (815) 992-2984 | nathanbeck@princeton.edu | notnate.github.io

EDUCATION

Princeton University

Fall 2021 – May 2025

BSE in Computer Science

Princeton, NJ

- **GPA:** 3.52 Certificates in Statistics/Machine Learning and Applied Mathematics
- **Activities:** Residential Advisor, The Daily Princetonian Head Copy Editor and Data Editor, Quiz Bowl

TECHNICAL SKILLS

Languages: Python, Java, C, Go, JavaScript, SQL (Postgres), R, HTML/CSS

Frameworks: React, Flask, JUnit, Django, FastAPI

Libraries: pandas, NumPy, Matplotlib, scikit-learn, PyTorch

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ

EXPERIENCE

Ticket Wallet

Summer 2023

Software Engineer

Princeton, NJ

- Worked with a team of five mobile developers, employing Git and Jira for version control and project management to enhance collaboration and streamline the development process.
- Authored 70% of the codebase for a user-responsive mobile application frontend using Flutter, based on Figma designs, to create a highly interactive and visually appealing user interface.
- Developed a robust backend using PostgreSQL and Django Rest Framework with REST APIs, to ensure reliable data management and seamless integration of frontend and backend functionalities.

Princeton University

Aug 2022 – May 2023

COS126 Lab TA

Princeton, NJ

- Assisted over 40 students weekly in debugging their Java code for programming assignments to enhance their coding proficiency and problem-solving skills.
- Provided guidance in Java programming theory to help students solidify their understanding and application of key concepts.
- Collaborated with fellow teaching assistants to identify and prepare for common errors.

IL Valley Community College

Summer 2022

IT Services Worker

Oglesby, IL

- Created and managed high-availability computer clusters and VMs using Proxmox and Ceph.
- Provided support and catered software needs of 60+ faculty, covering over 500+ computers.

PROJECTS

Personal Website | *HTML/CSS, JavaScript*

Present

- Developed and deployed a personal website using HTML, CSS, and JavaScript, showcasing my portfolio and effectively managing the project through Git and GitHub.

Princeton Art Museum App | *Flutter, Flask, PostgreSQL, AWS*

Present

- Collaborated with a five-member team to design and deploy a mobile app for Princeton's Art Museum, integrating front-end development with Flutter and backend technologies including Flask and PostgreSQL on AWS.

COS126 Statistical Library | *Java*

Spring 2022

- Created a Java-based object-oriented statistical library focused on polynomial regression, demonstrating advanced algorithmic skills and a strong understanding of object-oriented design.

Voice Cloning | *Python*

Fall 2021

- Led a voice cloning project using Python and machine learning technologies such as NVIDIA's Tacotron2 and Waveglow, processing over 100 voice clips on Princeton's computing clusters for model training.