

# Alex 'A.J' Norton

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🌐 ajn123.github.io/portfolio • 🐙 ajn123

## Education 📖

### Virginia Tech University

Undergraduate, GPA: 3.85/4.00

Blacksburg, VA

2011 – 2015

- Computer Science Major with a Mathematics Minor; Summa Cum Laude, Phi Beta Kappa

### Virginia Tech University

Graduate

Falls Church, VA

Jan 2024 – Present

- Master's degree with a concentration in data science, AI, and machine learning

## Work 💼

### Front Gate

Software Engineer II

PHP and Laravel development from TicketMaster backend systems

Remote

2022-Present

### Saatva

Software Engineer

Ruby on Rails and React frontend/backend development

Remote

2021-2022

### Thoroughcare

Software Engineer

Ruby on Rails and Vue.js Development with a small flexible team

Remote

2019-2020

- migrated the front end from html to Vue.js
- created SQL queries in the models to perform search and find for patients
- performed complex SQL queries for testing in RSpec

### IBM

Software Engineer

Developed Watson Workspace App, integrated with IBM Watson, created real time message service in Swift and Java

Austin, Texas

2015 - 2018

- coordinated with the Android team to submit features at the same time
- worked on the frontend and API calls to return user to most recently read message.

## Projects

**Ephemeral Hadoop:** Utilize unshared computer resources to run Hadoop batch jobs

JAVA, Hadoop

**Hokie Links:** Share class notes, comments, and links about Virginia Tech classes

Rails, JS, SASS

**Oxford Brookes Bus App:** Real time updates of the Oxford bus schedule, stops, and routes

iOS

**Schools Out API:** Built a REST API to predict school closures based on weather

Ruby On Rails

## Leadership ⚡

**Computer Science Teaching Assistant:** Held office hours for more than 400 CS students (15 hours/week)

**Hokie Ambassador:** Gave tours and presentations to aspiring Computer Science students every week

**Eagle Scout:** Major refurbishment of elementary school (100+ hours of community service)

## Experience ⚙️

### S.O.F.I.A Android project

Undergraduate Research

Virginia Tech

2013

- Development of game logic: Development of leaderboard and achievement functionality

### Youtube Channel

Channel Name: AppleJuiceTeaching

Internet

2012-Present

- Developed tutorials and references about CS topics such as Algorithms and Version Control
- Generated more than 1,000,000 views and 4,000 subscribers

## Skills

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- Ruby/Rails
- Java
- Git
- Javascript/Coffeescript