

# Brian Pope

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## Club Involvement

Management Society

Information  
Technology Club

Computer Science Club

## Education and Experience

Full-Time Software Engineer New Professional at Naval Information Warfare Center (12/23-Current) Clearance: Secret

- Proficient in development and maintenance of Full Stack Applications, with a dedicated focus on upholding cybersecurity standards to ensure data integrity and system safety.

Software Engineer Intern at Naval Information Warfare Center – Virginia Beach, VA (06/23 – 12/23) Full time in the summer, part time Fall Semester remotely.

Virginia Tech University - Blacksburg, VA  
Bachelor of Science: Computer Science  
graduated Fall 2023

Tidewater Community College -  
Portsmouth, VA Associate of Science:  
Information Systems – May 2021 • Honor  
Roll (Fall 2020) • Magna cum laude  
graduate • Dean's List Honoree (Spring  
2020)

## Essential Skills

Advanced  
MS Office:  
Word, Excel, PowerPoint  
Git  
Microsoft Project  
Microsoft Visio  
Microsoft Visual Studios  
Visual Studio Code  
Adobe Acrobat Pro

## Summary

Recent graduate of Virginia Tech with a Bachelor of Science in Computer Science, eager to leverage academic excellence and hands-on experience in pursuit of a challenging role as a Software Engineer or Developer. Proven track record in constructing innovative decision support tools/systems, coupled with a strong foundation in computer science principles. Actively seeking full-time employment opportunities starting Spring 2024 to contribute technical expertise and drive success in a dynamic software development environment.

## Relevant Technical Skills

Data Analysis; Linear Programming; Goal Programming; Artificial Neural Networks; Genetic Algorithms; System Analysis; Machine Learning; VBA Excel; Python; Java; C#; C++; Ruby; VB.NET; XAML; HTML 5; CSS; JavaScript; IBM InfoSphere MDM Drupal; Angular; jQuery; Bootstrap; PHP; Ajax; D3.js, Node.js; React; Data Transfer Mechanisms; Network Technologies; Perl Script; Internetworking; Network Security; Network Design; Internet Applications; Troubleshooting; React and Redux; MongoDB; Mongoose; SQL; Git; Junit; NUnit, pytest; and Docker; .

## Relevant Course Projects

**Optimization** – Took raw data to optimize profit margins and analyze resource constraints. Utilizing linear and goal programming.

**Simulation** – Forecasted random variables to plug data into intervals and predicting profitability. Determined the number of trials for data sets and arriving with output.

**Python** – Set specifications for code to determine loan acceptance or approval.

**JavaScript** – Designed and implemented a web-based application to facilitate the peer review process for students in a classroom setting. Leveraged a 3-tier architecture to ensure scalability and maintainability of the system. Employed a range of technologies including JavaScript, React, Node.js, HTML5, CSS, Bootstrap, and MySQL to create a seamless user experience.

**Visual Basic** – Generated VB.NET and XAML code via Microsoft Visual Studios to create a predictive model for customer churn using machine learning algorithms and customer data.

**Visual Paradigm** – Created a variety of unified modeling language diagrams, including use case diagrams, class diagrams, sequence diagrams, and state machine diagrams, to model and analyze a complex business problem domain using tools such as Microsoft Viso and Visual Paradigm

**Web Based Application** – Developed a comprehensive web application using a 3- tier architecture to manage academic club members and events. Employed a range of technologies including HTML5, CSS, JavaScript, jQuery, Bootstrap, PHP, Ajax, MySQL, and D3.js for data visualization.

**Library Management System Database** – Collaborated within a team to conceptualize, design, and implement a comprehensive database solution for a local library, effectively transforming their manual record-keeping practices into a streamlined digital system. With the main objective being to address challenges related to asset accountability, customer management, and checkout processes by creating a relational database.