

# Bernie Zhong

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## EXPERIENCE

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### Software Engineer

Jun. 2022 - Present

Peraton | Arlington, VA

- Rebuilt a threat product generator using ReactJs, Node.js, PHP, and MUI by implementing new features and improving database relationships to automate vulnerability indicators for the Department of Homeland Security.
- Enhanced the user interface to meet user-friendly and accessibility design standards using full-stack development tools and technologies.
- Collaborated with three other cybersecurity software engineers through agile programming and provided code reviews to debug concerns and operate code optimization.
- Conducted daily health checks on government networks and applications to assess potential security threats and verify with the team that servers are meeting technical performance measures.

### Software Engineer/Instructor

Sep. 2021 - Mar. 2022

Capital One | Mclean, VA

- Achieved a 95% course completion rate of 110 students after instructing daily lectures on JavaScript, Node.js, Docker, and ReactJs and fostered a collaborative and supportive classroom environment.
- Mentored ten aspiring software engineers from the CODA (Capital One Developer Academy) program through individual coaching sessions to successfully transition them towards professional software engineering roles.

### Front End Developer

Jan 2021 - May 2021

Atmospheric Electricit Research and Training | College Park, MD

- Accelerated lighting detection accuracy by 20% as a result of developing and launching a website for Atmospheric Electricity Research and Training (AERT) using JavaScript and Google Maps Platform API.
- Optimized website performance by reducing page load time by 15% from building new design and functionality improvements.

## PROJECTS

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### Netflix Clone

Personal Project | College Park, MD

- Assembled a Netflix home page web application on Firebase by using React.js and incorporated API calls from TMDB (The Movie Database) to display recent Netflix shows, movies, and clickable trailers.

### Front End Developer

UMD Schedule Builder Review | College Park, MD

- Aggregated professor ratings and course descriptions on a web application using JavaScript and API calls from UMD.io and PlanetTerp to provide students with comprehensive resources to plan their college semesters.

## EDUCATION

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University of Maryland, College Park | Bachelor of Science, Information Science

- Relevant Coursework: Dynamic Web Application, Intermediate Python, Object Oriented Programming, Databases, Database Design and Modeling, Data Sources and Manipulation, Linear Algebra, Statistics

## Tech Stack

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HTML/CSS | JavaScript | Material UI | Bootstrap | Express.js | Node.js | Docker | Php | ReactJs | Python | Angular | TypeScript | SQL