

Landon Duba

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EDUCATION

Virginia Tech

Bachelor of Science, Computer Science - GPA: 3.82

Blacksburg, VA

Aug. 2023 – May 2027

- **Coursework:** Data Structures & Algorithms, Software Design, Computer Architecture, Applied Combinatorics, Graph Theory, Linear Algebra, Multivariable Calculus, Probability & Statistics

EXPERIENCE

ManTech International

Software Engineer Intern

Dec. 2024 – Mar. 2025

Herndon, VA

- Developed a vehicle maintenance system using React and Python, supporting 1000+ army vehicles
- Built an in-memory caching buffer pool for search results leveraging spatial locality in sequential queries
- Created a React component enabling users to sign documents, improving workflow for 50+ users
- Updated GraphQL schema to 100% populate autocomplete options and fix refresh call logic

Bloomberg

Tech Lab Fellow

Oct. 2024 – Nov. 2024

Blacksburg, VA

- Built a portfolio manager with real-time data flow between markets and active customers in Java
- Queried 10+ market exchanges to simulate the transmission of financial data at 1 second intervals
- Leveraged RabbitMQ stream messages between producers and consumers in a simulated market

Xcel Wetsuits

Software Engineer Intern

June 2024 – Aug. 2024

Spotsylvania, VA

- Made an app with React, Python, and SQLite for cashiers to manage sales, storing over 7,000 orders
- Utilized React effect hooks to build a table that automatically re-renders based on selected suit filters
- Integrated app with Sheets API to reduce order fulfillment time by 2 days and limit manual overhead

PROJECTS

Safety Map | Python, Flask, React, Tailwind CSS, Pandas, NumPy

- Built a navigation app that integrates with Google Maps API to deliver the safest routes on a trip
- Applied a grid binning model to score each road on distance and safety for its longitude and latitude
- Cleaned and parsed Virginia.gov dataset to calculate safety scores for over 200,000 roads

Discord Customization Extension | JavaScript, HTML, CSS

- Developed a Chrome extension that enhanced the Discord web client by enabling animated profile pictures, banners, and custom theme pop-outs for improved personalization
- Engineered client-side DOM manipulation and injected custom elements to Discord's user interface
- Published to the Chrome Web Store, achieving 20+ downloads and 800+ impressions organically

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS

Frameworks & Libraries: React, Node.js, Flask, JUnit, Pandas, NumPy, Matplotlib

Developer Tools: Git, Docker, Google Cloud Platform, Jira, Confluence, VS Code, IntelliJ, Eclipse