

John Bucher

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Work Experience

Lockheed Martin, Littleton, CO

July 2018 – Present

Senior Software Engineer, 2022 – Present

Software Engineer, 2020 – 2022

Associate Software Engineer, 2018 – 2020

- Design and develop Full-Stack web-applications used by agencies of the US Government.
- Serve as Scrum Master of a development team: help to coordinate features and fixes, facilitate developers towards task completion, and collaborate with various cross-functional stakeholders across Lockheed Martin, subcontractors, and the US Government.
- Built, maintained, and upgraded multiple Angular and React applications to deliver reliable and continuously improving capabilities to end-users. Worked closely with stakeholders to identify issues and improve the user experience in an agile fashion.
- Implemented and configured the services needed to deploy a new Full-Stack application through Amazon Web Services (AWS), utilizing services such as EC2, Lambda, Load Balancing, and OpenSearch. Ensured a scalable and maintainable environment as well as a smooth transition of app hosting.
- Created a consolidated monitoring and analytics tool using Elasticsearch (ELK Stack) that collects logs from the system's servers and makes the data explorable in Kibana, thus making the entire system easier to maintain and monitor without deep technical knowledge.
- Constructed an external API for system data using Java and Spring, as well as a rate-limiter and proper logging to ensure that previous system performance was not impacted. Allowed for the additional capability of outside entities querying and utilizing our system's data.

Computer Aid, Inc., Harrisburg, PA

May 2017 – August 2017

Software Development Intern

- Designed, created, and maintained web-based applications and relational databases to develop projects such as E-commerce websites, utilizing ASP.NET and C#.
- Inspected, documented, and aided in the knowledge transfer process of applications through research, interviews, and collaborations with the developer teams.

Education

University of Colorado Boulder, Boulder, CO

January 2021 – Present

Degree: Master of Engineering, Major: Engineering Management; GPA: 4.0 / 4.0 index

- Learning valuable project management and leadership skills, including effective communication, stakeholder management, enabling self-starting teams, project and quality management, statistics and metrics, and project finance.

Shippensburg University, Shippensburg, PA

August 2014 – June 2018

Degree: Bachelor of Science, Major: Computer Science; GPA: 3.5 / 4.0 index

Member of the Honors Program and Computer Programming Team

Projects

<https://johnbucher.me>

An Angular-based web application that serves as my personal website and digital portfolio. Additionally implemented a CI/CD pipeline through GitHub Actions which analyzes code quality using ESLint, runs Unit Tests using Karma and Jasmine, and deploys the application to GitHub Pages.

Research Experience

“The Prevalence and Impact of the “QWERTY Effect” on the Russian language.”

- Text-based analysis of Russian characters over time using a dataset of 74 million names grouped by birth year to observe if the introduction of the electronic keyboard has influenced the Russian language in similar patterns that have been observed in Roman-character languages. (January 2017 – December 2017)
- “Best Senior Research Project” awarded by the Computer Science department.
- “Honorable Mentions: Best Senior Research Project” awarded by the Honors Program.