

# Kyle Thompson

SOFTWARE ENGINEER · FULL STACK

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## Work Experience

### Capital One

Richmond, Virginia

#### SENIOR ASSOCIATE SOFTWARE ENGINEER

Dec. 2020 - Present

Created and developed **Backstage**, a self service tool for Capital One event planners to build and publish their own conference site

- Led planning of the static site generator (SSG) and content management system (CMS) web app
- Designed and implemented data model, REST API, and serverless architecture
- Collaborated with designers to create User Interface mock-ups and implemented with React using a functional component pattern
- Optimized performance to improve load time of generated sites and decreased build size by 90% to allow builds to execute on AWS Lambda
- Presented and demoed the application at several internal conferences to showcase tech stack, design, and features
- *Built with Node.js, React, TailwindCSS, and Next.JS on top of a serverless architecture using Lambda, S3, and DynamoDB*

Developed **SECON** site, the first-time virtual Capital One Software Engineering Conference now conducted annually

- Developed a custom static site for the conference with integrated tracking and Single Sign-On authentication
- Delivered in 3 weeks while iterating on the design based on feedback from designers and event planners
- \$1M in cost savings using virtual capability, 10K attendees, 100% attendance increase from year prior, and 750k page interactions

#### ASSOCIATE SOFTWARE ENGINEER

Feb. 2019 - Dec. 2020

Refactored **Rotate & Allocate**, custom HR web apps to assign new grad tech hires to their first and second year roles

- Collaborated with team to refactor and consolidate the backend of both applications to a single API hosted with AWS Lambda
- Migrated both front end applications from a dedicated server to a serverless pattern to improve cost savings and decrease architectural footprint
- Implemented a service to host and serve the new hire resumes
- *Built with Node.js, GraphQL, Angular, and PostgreSQL*

Developed **Gumshoe**, a web app to support quarterly user access re-certifications for our Identity and Access Management (IAM) team

- Implemented an API endpoint and a table component with pagination, filtering, sorting, and row actions to support bulk decisioning
- *Built with Java Spring, Angular, and PostgreSQL*

Designed and created **SIDER (Selenium IDE Recorder)**, a Chrome Extension and web app to record, manage, and execute Selenium tests

- Led a small team to plan and develop a proof-of-concept which was piloted by the testers on the IAM team
- *Built with React, Node.js, Selenium, and PostgreSQL*

#### INTERN SOFTWARE ENGINEER

Jun. 2017 - May. 2018

- Developed a data monitoring tool that tracks the arrival of daily batch files to S3 buckets and reports the status to DataDog for dashboard visualization
- Resulted in increased visibility and time savings for any failed batch deliveries and was still used by the team after the internship concluded

### Virginia Tech

Blacksburg, Virginia

#### UNDERGRADUATE TEACHING ASSISTANT

Aug. 2017 - Dec. 2018

- Taught labs and held office hours and labs for students in Intro to C++ and Data Structures and Algorithms (Java)

### Solers (acquired by Peraton in 2019)

Blacksburg/Arlington, Virginia

#### SOFTWARE ENGINEER INTERN

Jan-Aug. 2016 & Jun-Aug 2017

- Worked on an agile team to develop features for a classified information sharing portal such as certificate upload and an email template service

## Honors & Awards

- |      |   |                  |
|------|---|------------------|
| 2021 | <b>Industry Award Winner - SECON</b> , Digital + Social Media Awards - Employee Communications                | PR News          |
| 2020 | <b>Industry Award Honorable Mention - SECON</b> , Employee Communication Awards - Virtual Events/Celebrations | Ragan's PR Daily |
| 2020 | <b>Company Award Winner - SECON</b> , TechX Q3 Winner   | Capital One      |

## Skills

<b>Programming</b>	JavaScript (ES2015), Java, C, Python	<b>Database</b>	PostgreSQL, NoSQL (DynamoDB), CoreData, Knex
<b>Back-end</b>	Node.js, Express, Spring, GraphQL, REST	<b>DevOps</b>	AWS, Docker, Terraform, Jenkins
<b>Front-end</b>	React, Angular, Next.js, TailwindCSS, HTML5, CSS	<b>Mobile</b>	Swift, SwiftUI, Flutter

## Education & Certifications

### Virginia Tech (Virginia Polytechnic and State University)

Blacksburg, Virginia

B.S. IN COMPUTER SCIENCE *Cum Laude*

2014 - 2018

### AWS Certified Solutions Architect – Associate

AMAZON WEB SERVICES

Jan 2020