

Peter Sterckx

SOFTWARE ENGINEER

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Work Experience

Capital One

SENIOR ASSOCIATE SOFTWARE ENGINEER

Richmond, VA

February 2021 - present

- Build backend services to support our fee waivers platform, enabling us to waive credit card fees for customers
- Design serverless architectures with AWS services such as Lambda, DynamoDB, and Step Functions
- Develop Lambda APIs in Python with AWS SAM

Self-employment

SOFTWARE DEVELOPER CONTRACTOR

Richmond, VA

November 2021 - April 2022

- Designed and developed a multi-tenant SaaS application for a start-up focused on non-profit email fundraising
- Built APIs and microservices using serverless AWS services such as Lambda, API Gateway, DynamoDB, and Aurora Serverless
- Worked with the client and other developers to develop MVP features and microservice architectures

Capital One

ASSOCIATE SOFTWARE ENGINEER

Richmond, VA

August 2020 - February 2021

- Developed and delivered a cloud-native application for internal case management
- Designed and built complex UI features, working with product managers to ensure the best experience for agents
- Development work was mainly in Vue, Node (Nest framework), and GraphQL
- Continuously delivered features with Jenkins and provided production support using Splunk and the AWS console
- Reviewed multiple PRs per week and facilitated design review sessions as other teams contributed to our platform
- Contributed new features and bug fixes to platform libraries used throughout the department

Robert Bosch GmbH

ENGINEERING CO-OP - 2 ROTATIONS

Charleston, SC

Summers of 2018 and 2019

- Worked on a variety of projects to support the machining and final assembly maintenance technical team of the electronic stability program (ESP) production lines
- Supported mechanics and engineers during maintenance windows, troubleshooting a variety of mechanical and electrical systems
- Developed a web-based system for tracking the location of robot arms and controllers
- Redesigned and built a coolant monitoring system using Arduino

Skills

Programming

HTML, CSS, JavaScript, Vue, Node, SQL, NoSQL, Python, MATLAB, Arduino

AWS

Lambda, API Gateway, DynamoDB, RDS, Step Functions, S3, CloudFormation, SAM

Software

SolidWorks, Excel, Power BI, SAP

Other

technical writing, project management

Projects

Thermostat Controller (petersterckx.com/p/thermostat)

Richmond, VA

- A remote thermostat control system for my apartment built using AWS IoT Core, an ESP32, some electronics, and a UI built in Vue October 2021

Online Multiplayer Tic Tac Toe Game (petersterckx.com/p/tictactoe)

Richmond, VA

- A simple online game created with websockets, serverless AWS services, and Vue May 2022

Education

Clemson University

B.S. IN MECHANICAL ENGINEERING

Clemson, SC

2016 - 2020

- Graduated *summa cum laude*, GPA 3.98/4.0
- Clemson National Scholars Program, *full academic scholarship program*
- Honors College

Georgia Institute of Technology

GEORGIA TECH LORRAINE STUDY ABROAD PROGRAM

Metz, France

Fall 2018

Honors & Certifications

2021 AWS Certified Solutions Architect – Associate, Amazon Web Services

Richmond, VA

2019 Outstanding Junior, Clemson Mechanical Engineering Department

Clemson, SC