

# LAURA BROOKS

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## EXPERIENCE

Capital One, McLean, VA

July 2017-Present

### Senior Software Engineer/Tech Lead

- Lead team development on customer and agent experiences supporting [Spark 2% Business Card](#).
- Design and develop Node.js, Python, and Spring Boot services hosted on AWS (ECS, Lambda, DynamoDB) to drive customer alerts and tools used by agents and customers.
- Build features for Vue.js micro-frontend application where agents service customer accounts.
- Manage and prioritize incoming intent with Agile Delivery Lead and Product Owners to ensure business intent is delivered with resilient, secure, and well-architected software.

### Senior Software Engineer

- Enabled launch of Capital One's first charge card product through contributions to the customer-facing credit card application page (React/Redux) and an API (Python, AWS Lambda) for beta customer segmentation.

### Software Engineer

- Modernized existing jobs to PySpark running on AWS infrastructure (EC2, EMR, CloudFormation) and built a full stack web application for reporting and monitoring (Neo4j, React, and Redux) in support of Capital One's Data Transformation effort.

### Capital One Developer Academy (CODA)

- Graduated from a six month bootcamp-style Web Programming course covering Postgres, Node.js, Express, React, Angular, AWS, and Agile Development.
- Mentored subsequent CODA cohorts (2018 to present) in group and one-on-one settings, supporting the program's continued success and helping individuals grow as new developers.

Technology Consultant Intern, Paytronix Systems Inc., Newton, MA

Summer 2016

- Collaborated on every stage of a process improvement project including: data analysis, research, brainstorming, creative solution generation, presenting recommendations to executives and training department of 25 people.
- Conceptualized information organization and designed wireframes for a new support website.
- Automated manual data entry task using Python.

Research Assistant, Tufts Human Robot Interaction Lab, Medford, MA

Fall 2015

- Integrated code from a Python/ADE environment to a Java/ROS environment.
- Implemented simple object search.

Summer Scholar, Robotics Institute, Carnegie Mellon University, Pittsburgh, PA

Summer 2015

- Designed expressive motion patterns for non-anthropomorphic robots with limited degrees of freedom.
- Programmed motion using Python, C++, and ROS and conducted human-subjects studies.

## CERTIFICATIONS

AWS Certified Solutions Architect - Associate

Issued June 2022

## EDUCATION

Tufts University, Medford, MA | B.S. Engineering Psychology, *Summa Cum Laude* (3.94 GPA)

May 2017

*Relevant courses:* Data Structures, Web Programming, Visualization (Processing), Computer Aided Design, Discrete Mathematics, Assistive Technology

*Honors:* Phi Beta Kappa Academic Honor Society (2016), Class of 1921 Leonard Carmichael Prize Scholarship (2016)

## SKILLS

Javascript, Node.js, AWS, Vue.js, React.js, Python, Java, CI/CD, Git, Agile Methodology, HTML, CSS

## VOLUNTEER WORK

Garden Ambassador, United States Botanic Garden, Washington, DC

September 2018-present