Will Broach
SOFTWARE ENGINEER

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Education & Certification

The University of Georgia   *Athens, GA*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, CUMULATIVE GPA: 3.9, COMPUTER SCIENCE GPA: 4.0   *August 2016 - December 2019*

BACHELOR OF BUSINESS ADMINISTRATION IN FINANCE AND ACCOUNTING, CUMULATIVE GPA: 3.9, MAJOR GPA: 3.9   *August 2005 - December 2010*

Certified Public Accountant   *State of Georgia*

LICENSE NUMBER: CPA034821   *January 2017 - Present*

Professional Experience

The Home Depot   *Atlanta, GA*

SOFTWARE ENGINEER II   *September 2021 - Present*

- Develop new Java/Spring-based features for cloud-based customer data privacy micro-services supporting back-end APIs.
- Develop automated reporting tools using Google Cloud Platform services for use by internal operations teams.
- Develop custom user interface components/web pages displayed on homedepot.com.
- Support production applications, troubleshooting issues as necessary.
- Develop new unit and integration test suites for microservice applications.

Capital One   *Washington, DC*

SOFTWARE ENGINEER   *February 2020 - August 2021*

- Built and managed cloud-based ETL pipelines performing feature extraction/model scoring used to measure credit risk for a $4 billion portfolio.
- Redesigned and refactored feature extraction modules to a class-based design, reducing per-repository LOC by 50% and consolidating configuration items into one repository to reduce maintenance overhead.
- Implemented re-optimizations to Spark dataframe manipulations/Spark job configurations, reducing processing time for model scoring by 50%.
- Designed and built new features for cloud-based session management microservices.

Capital One   *Washington, DC*

SOFTWARE ENGINEER INTERN   *June 2019 - August 2019*

- Designed and built a Scala API facilitating access to the enterprise-wide Kafka platform by consumer applications.
- Using Spring Boot, designed and built a RESTful Kafka producer program for data obtained from one of Capital One's identity and access management applications, enabling real-time access to customer site-navigation behavior.

Nuesoft Technologies   *Atlanta, GA*

SOFTWARE ENGINEER INTERN   *March 2018 - August 2018*

- Designed and built a Python ETL application facilitating the transfer of patient medical chart data from new client legacy platforms to Nuesoft servers, replacing a manual process and reducing chart data transfer time from 2 weeks to 1 day.

Skills

Languages	Java, Python, C, C++, Scala, JavaScript, HTML, CSS
Frameworks	Spring/Spring Boot, Spark/PySpark, Pandas, Kafka, Bootstrap, MySQL, Thymeleaf, JUnit, Maven, Docker, Conda, Node, React
Cloud	AWS EMR, AWS EC2, AWS Lambda, AWS Step Functions, AWS S3, AWS SNS, GCP Compute Engine, GCP Cloud Run, GCP Pub/Sub

Projects

Luca1

- An interpreter for a Turing-complete scripting language implemented in Java using all-custom components (e.g. lexer, parser).

Premiere Cinemas

- Full-stack online ticketing/order management application for a fictional theater company.
- Backend implemented with Spring Boot/MySQL, frontend w/Bootstrap and custom JS. Supports real-time email communication w/users.

Prior Professional Experience

PHARMA TECH INDUSTRIES, SENIOR FINANCIAL ANALYST   *2014 - 2016*

GENUINE PARTS COMPANY / NAPA AUTOMOTIVE, FINANCIAL ANALYST   *2013 - 2014*

PRICEWATERHOUSECOOPERS LLP, ASSOCIATE - TRANSACTION SERVICES   *2011 - 2013*