Brian (Bharat) Chandra

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SKILLS

Languages: Python, Java, SQL, JavaScript, Go, C, Ruby
Frameworks/Libraries: Django, FastAPI, pandas, pytest, PySpark, Spring Boot, Express.js, React
Tools/Technologies: AWS (ECS, Batch, Lambda, Route 53, S3, EMR), Snowflake, MySQL, Airflow, Cassandra, Azure, NoSQL, Node.js, Jenkins, Git, RESTful API, New Relic, Docker, Splunk, PagerDuty, webhooks, Maven, JUnit
Competencies: Cloud Computing, ETL, CI/CD, NLP, Unit Testing, OOP, Microservices, ML, Full-Stack Development

WORK EXPERIENCE

Capital One **Aug 2023 - Present**
Associate Software Engineer *McLean, VA*

- Architected a third-party SaaS catalog serving 1,000+ daily requests, centralizing exception approvals, onboarding status, and ownership for the cybersecurity team using Python, AWS Lambda, MySQL, and Snowflake
- Developed a unified view of approved applications and metadata across CMDB datasets using microservices and Agile sprints/refinements, optimizing access decisions and reducing redundant development efforts
- Built a multithreaded ETL pipeline with schema validation and CI/CD, ingesting 500 MB of data from Snowflake, Service Management API, and Intel API into MySQL to support CASB owners in tagging approved SaaS applications
- Integrated RESTful APIs with asynchronous data handling to expose data to the cybersecurity team, hosted on AWS Lambda with automated cross-region failover to ensure 99.9% availability
- Implemented maintenance/monitoring tools using New Relic and Splunk to track metrics like execution time, call frequency, and IP origin, triggering PagerDuty actions on malicious requests, pipeline issues, or failed API responses

Capital One **May 2022 - Aug 2022**
Software Engineer Intern *McLean, VA*

- Created an ETL pipeline for the Card Marketing team, parsing bank, account, and transaction history to standardize input for an ML card-targeting model, saving $45K yearly in batch processing/data entry with Python and AWS EMR
- Reduced processing time from 3 hours to 1.8 by optimizing PySpark jobs using data partitioning, caching, and broadcast joins, and defining business requirements in collaboration with data engineering and analytics teams
- Integrated RESTful APIs atop a data lake for real-time data exchanges with enterprise platforms and marketing tools, implementing data normalization, load balancing, and partitioning to reduce ETL runtime and AWS costs
- Developed a notification API using microservices architecture and webhooks, sending messages to stakeholders via email, SMS, and Slack, and integrating escalation protocols, improving response times for critical incidents

CodeData **May 2021 - Aug 2021**
Software Engineer Intern *Danville, CA*

- Built a full-stack, event-driven web application for the Predictive Maintenance team, enabling interactive queries for equipment maintenance timelines, servicing 5,000+ cases annually using Python, Django, Spark MLlib, and Cassandra
- Designed an intuitive, modular interface for visualizing predictions, trends, and insights, enhancing equipment issue detection and resolution using JavaScript, React, Axios, and Redux Toolkit
- Refined predictive algorithms using feature selection and hyperparameter tuning, reducing type 1 errors by 12% and type 2 errors by 5% for the maintenance request prediction model, in collaboration with R&D engineers

UC Berkeley EECS **Jan 2020 - May 2021**
Academic Intern *Berkeley, CA*

- Taught CS61B, a course on data structures and algorithms in Java to 1000+ students, using live coding, interactive problem-solving, and GitHub Classroom to improve assignment completion rates
- Organized discussion sections, developed exams, and designed labs using Gradescope, Piazza, and Ed Discussion, maximizing engagement with an average of 20 students per section in partnership with professors and instructors

EDUCATION

University of California, Berkeley **Aug 2019 - May 2023**
Bachelor of Arts in Computer Science, GPA: 3.9/4.0 *Berkeley, CA*
Relevant Courses: Computer Security, Software Engineering, Algorithms, Databases, Artificial Intelligence
Honors: Dean's List Recipient (High Distinction, 2022-2023)
Other: Co-Author, HCI Paper on the Efficiency & Usability of Voice Assistants/NLP Models (2022)

EXTRACURRICULAR

Student Mentor, CodePath **Aug 2020 - May 2023**
Computer Science Mentor, Upsilon Pi Epsilon (UPE) **Aug 2020 - May 2023**
Officer, PlexTech Web Development Club **Aug 2019 - May 2023**