

# Benjamin Correll (Ben) - Senior Software Engineer

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*Software engineer with experience in modernizing enterprise financial platforms using Java, Python, and AWS.*

## TECHNICAL SKILLS

**Languages:** Python, Java, TypeScript, JavaScript, SQL

**Cloud & DevOps:** AWS, CI/CD, Git, REST APIs, Datadog, Splunk

**Frameworks & Tools:** Spring Boot, Angular, React, Node.js, Jupyter, Bash

**Data & Analytics:** Pandas, NumPy, SciPy, TensorFlow, Keras, Stata

## WORK EXPERIENCE

### Application Engineer

**Discover Financial Services (*acquired by Capital One Financial Corporation*)**

**Riverwoods, IL • November 2024 – Present**

- Developed and maintained the IRIS platform and supporting applications, including ICETier1REST, IRIS-Admin, and ListDataAPI. Led modernization and cleanup initiatives to eliminate legacy dependencies, reduce technical debt, and improve integration with modern enterprise systems.
- Developed UI enhancements and implemented new features for the IRIS and IRIS-Admin user portals, improving usability and administrative workflows.
- Contributed to post-acquisition integration initiatives following Capital One's acquisition of Discover, including onboarding new API integrations to the Gateway Router platform.

### Java Developer

**J.P. Morgan Chase & Co.**

**Chicago, IL • January 2024 – October 2024**

- Developed Access Migrations, an application used to create new corporate client accounts in the JPMC database. Expanded enterprise account onboarding capabilities by implementing new workflows and feature enhancements.
- Spearheaded modernization of Access Migrations and Conversions, mission-critical applications responsible for parsing and converting enterprise business data.
- Supported prototyping and development of the next-gen application dashboard, utilized for configuring application runs, in both Angular and React.

## **Software Engineer (Full-Stack)**

**Capital One Financial Corporation**

**Chicago, IL • January 2022 – July 2023**

- Built the Data Gatherer component for the Features Convergence (Genesis) Project, utilizing Python and AWS Lambda to replicate and expand CCR's functionality on lighter, more modern cloud infrastructure.
- Maintained the Customer Card Recognition (CCR) Engine, a legacy system for retrieving and aggregating bank-specific customer data during the approval process for new lines of credit.
- Built a Real-Time Read Replica Table in DynamoDB for the Real-Time Fraud Prevention (Cerberus) Engine, replicating engine-relevant data from the Capital One Data Lake with accuracy to a few milliseconds.
- Maintained and developed the CCR Housefile, an EMR batch job that leverages the CCR Engine to identify potential pre-approval candidates for Capital One Marketing campaigns.

## **Programmer**

**Ken's Beverage, Inc. (*acquired by Pentair plc*)**

**Plainfield, IL • December 2019 – January 2022**

- Maintained and developed MODIS, a Spring MVC Web Application that served as the central dispatching, billing, and inventory management system for the company, as well as its successor MODIS 2, a Spring Boot and Angular Web Application.
- Built MODIS 2 iOS, a Swift application and the successor to MODIS iOS, that served as the front-line data input medium for company technicians.
- Ownership of the Asset Transfer system, facilitating the transfer of parts between company warehouses.
- Worked with stakeholders to create company reports, varying in content from annual revenue to individual technician performance, utilizing the MODIS database.

## **EDUCATION**

### **Master of Business Administration (MBA)**

*Purdue University - Daniels School of Business*

Specializations: Business & Technology; Business & Economics Data Analytics  
2026 (Expected)

### **B.S. Computer Science & Linguistics**

*University of Illinois Urbana-Champaign (UIUC)*

2019

## **CERTIFICATIONS**

**AWS Certified AI Practitioner** (Amazon)

**AWS Certified Solutions Architect – Associate** (Amazon) [*Expired*]

**Certified Secure Software Engineer – Associate** (Capital One)

**Information Accessibility Design and Policy** (UIUC College of Applied Health Sciences)