

# Joseph Charland

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## EXPERIENCE

**BNY**, Pittsburgh: Full Stack Software Engineer  
Nov 2023 – Present

- Developed and maintained a mission-critical interest rate web app using Java and Angular.
- Built Python automation tools to streamline reconciliation and auditing processes.
- Consolidated multi-stage pipelines into a unified push-to-deploy system, reducing release complexity and accelerating delivery cycles.
- Implemented a trunk-based branching model to enhance integration cadence and boost overall development velocity.
- Integrated mutation testing to developer CI/CD pipeline
- Optimized SQL data models (-90% resource use / +20% data retrieval).
- Built test-data auto-generation tools improving team autonomy and coverage (+65%).

**PNC Bank**, Remote: Software Engineer  
April 2022 – November 2023

- Designed an API migration system for 16 M+ records with zero downtime.
- Reduced API dependency vulnerabilities by 80%.
- Developed an email one time pass code verification API for secure authentication.
- Automated API monitoring and reporting for stakeholder visibility.

**PNC Bank**, Project Manager / Business Systems Analyst  
November 2021 – April 2022

- Spearheaded enterprise UI development in an agile team.
- Designed wireframes and inline validation interfaces.

**PNC Bank**, Change Management  
August 2020 – November 2021

- Built a Visual Basic Excel Macro for PNC's mortgage appraisal management pipeline cutting turnaround time by 37%.

## EDUCATION

### Georgia Institute of Technology

Masters of Science in Computer Science, Computer Systems and AI Specialization (Expected May 2027)

### University of Pittsburgh

Bachelors of Science in Business Information Systems & Supply Chain Management (December 2019)

### Community College of Allegheny County

Associate of Science in Software Development (December 2022)

### Skills

API Design, CI/CD, Agile Methodologies, Engineering Leadership, Strategic Planning, Problem Solving

### Languages

Python, Java, C, TypeScript, JavaScript, SQL, Bash, Visual Basic

### Frameworks & Tools

Spring Boot, FastAPI, Flask, Angular, Jenkins

### DevOps & Version Control

Git, Bitbucket, GitLab, Jenkins

### Database & Monitoring

SQLite3, Splunk, Dynatrace, Logscale

### Testing & QA

JUnit, Automated Unit Testing, Integration Testing