

# Miraj Patel

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## EXPERIENCE

### Microsoft, Redmond - *Software Engineer 2*

June 2018 – Present

- Revamp legacy apps as React SPAs with robust OSS while conforming to Microsoft's Fluent design; vastly improved application maintainability as well as overall UI/UX
- Incorporate Azure App Insights (AI) telemetry to analyze user workflows and enhance the developer debugging experience when investigating customers' reported incidents
- Publish documentation for new-hire ramp up: team's development, testing, and deployment practices, as well as user-level technical documentation for core libraries and UI components
- Actively integrate new commercial product management scenarios for platform validation
- Coordinate with partner service teams to re-architect unwieldy or unintuitive customer scenarios
- Perform over 75% of the team's C# and JS code reviews to help ensure conformity to company guidelines and best practices, as well as recommend redesign when appropriate
- Built CI/CD pipelines on Azure DevOps for streamlined integration and UAT testing and release into multiple environments in under 10 minutes

### Highbridge Capital Management, NYC - *Software Engineer*

May 2017 – May 2018

- Architected a real-time trade processing system using Apache Kafka (message queue) on distributed systems for fault tolerance and disaster recovery
- Architected microservices for MiFID II mandated trade reporting and optimization of treasury analysts' daily workflows in order to meet the "within 1 minute" post-trade reporting window
- Developed web apps with intuitive event-driven Angular and Vue.js frontends for various stakeholders including traders, internal developers, and managing directors
- Developed developer-oriented RESTful API (Swagger/OpenAPI specification-compliant) for trade manipulation in order to reduce manual entry/checks at end-of-day
- Designed a more modern UI/UX of legacy web applications to establish internal starter kit with standardized company theme and lightweight authentication and authorization backend service
- Configured Jenkins jobs for automated builds, Maven deployment, and releases into QA and Production environments
- Optimized ETL procedures on SQL Server; reduced the runtime of audit-related backups by ~67%

### Consolidated Edison, NYC - *Engineering Aide (Intern)*

May 2015 – August 2016

- Developed a dashboard on Google Maps to that allows management to prioritize Manhattan's electric network repair in accordance with urgency and customer impact
- Rectified over 20% customer data using NYC Open Data and Google Maps Web Services APIs
- Developed VBScript and Excel-related productivity tools to reduce manual effort and time required for data entry and analysis by over 50%
- Redesigned department's SharePoint site, document libraries, online forms, and Nintex workflows

## EDUCATION - Cooper Union, NYC

**Master of Engineering**, *Electrical Engineering* (GPA: 3.8/4.0)

December 2017

**Bachelor of Engineering**, *Computer Engineering* (GPA: 3.3/4.0)

May 2016

## SKILLS

- Proficient in C, C++, Java, Javascript/Typescript, MATLAB, Python, VBA, VBScript, HTML/CSS
- Enterprise experience with React and Vue frontends, Node.js and Spring Boot (Java) backends
- Academic experience with data science, machine learning, and natural language processing using Python (Keras, NLTK, NumPy, Scikit-learn)