

# Uday Manchanda

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## EXPERIENCE

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- **Capital One** Richmond, VA  
*Software Engineer* *August 2019 - Present*
  - **Data Engineering:** March 2021 - Present
    - \* Reduced costs by streamlining Snowflake queries into a single AWS Lambda function and published to an internal streaming platform.
    - \* Improved observability with Cloud Watch monitoring tools.
    - \* Increased flexibility of existing API by allowing for a more permissive schema when collecting data from MongoDB.
  - **Site Reliability Engineering:** August 2019 - March 2021
    - \* Created CI/CD pipeline in Jenkins to enable hands-off deployments from Development to Production.
    - \* Enabled developers to identify code quality issues earlier through CI checks.
    - \* Enhanced capabilities of existing custom-built failover/failback tool by increasing code coverage and adding new features. Onboarded users to this tool.

## PROJECTS

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- **NBA-API** Technologies: Golang, Docker  
<https://github.com/umanchanda/NBA-API>
  - A simple API that scrapes data from Basketball Reference
  - Provides information about games, scores, and other various statistics.
- **Phonebook Application** Technologies: React.js, Node.js, Express.js, MongoDB  
<https://github.com/umanchanda/phonebook-application>
  - Full Stack Application that performs CRUD operations for a simple phonebook.
- **Finance Application** Technologies: Flask, SQLite3, Docker  
<https://github.com/umanchanda/umanchandastocks>
  - Simple Web Application that performs stock trading capabilities.

## PROGRAMMING SKILLS

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- **Languages:** Python, Node.js, Golang
- **Cloud Computing:** AWS: EC2, CloudWatch, Lambda, Route53
- **Web Development:** React.js, Flask
- **CI/CD:** Jenkins, Heroku
- **Misc:** Git, Docker, Terraform
- **Databases:** Snowflake, MongoDB

## EDUCATION

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- **New Jersey Institute of Technology (NJIT)** Newark, NJ  
*Bachelor of Science in Computer Science; GPA: 3.43/4.00* *Graduated: May 2019*

## CERTIFICATIONS

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- **AWS Certified Solutions Architect Associate:** July 2021