

# ANIKET PANDEY

9500 Fairfax Blvd, Apt 2311, Fairfax, VA - 22031

☎ +1-818-821-4004

✉ [aniket414@gmail.com](mailto:aniket414@gmail.com)

🌐 [aniket414](https://www.linkedin.com/in/aniket414)

🔗 [aniket414](https://github.com/aniket414)

🌐 [Aniket Pandey](#)

## Experience

---

### George Mason University

*Graduate Research Assistant*

**January 2022 – Present**

*Fairfax, VA, US*

- Currently developing a uniform identity and cryptographic system that enhances security for the Internet of Things devices and cyber-physical systems that service large buildings.
- Writing entirety of source code and test modules while reading relevant papers and conferring with faculty experts to ensure the software is well designed.

### JP Morgan Chase & Co.

*Software Engineer*

**July 2019 – August 2021**

*Pune, MH, IN*

- Designed and developed in-house software platforms and solutions for other teams and travel domain products.
- Designed and implemented a service from scratch that will enable customers to view their travel profile.
- Built high quality REST APIs and wrote its unit testing.
- Orchestrated assigned product to manage its end-to-end working, release and up time.
- Implemented AWS managed Kafka for data streaming, designed serverless AWS Lambda which triggered every day to report users data and performed analytic operations on data.
- Streamlined and remodeled Jenkins CI/CD pipeline to automate the entire process of release on various deployment environment and assisted the team with Docker container and migration from Amazon EC2 to Amazon EKS for self managed Kubernetes micro-service orchestration.
- Performed performance test of the applications and improved its efficiency to accept high volume of requests.
- Monitored the CPU, Memory, Pods and Logs of the deployed service on production using Grafana, Kibana Elasticsearch and maximized its high-availability, high-performance, and scalability.
- Implemented various Software Design Pattern to keep the code base organized and maintainable. Followed the Test Driven Development approach and SOLID principles while development.

## Projects

---

### Nextgen Profile | C#, DotNet Core, GraphQL, AWS, Cassandra, Redis

**April 2020**

- Developed a profile as a service using GraphQL to manage the profile data of individuals.
- Increased the efficiency of system to handle a load of 15-20 RPS during peak hours.
- Defined the CCPA (US) and GDPR (EU) in the service to comply with the act and also made sure the PII data is encrypted.

### Nextgen IAM | C#, DotNet Core, Python, AWS, Cassandra, Redis, Kafka

**September 2019**

- Developed an identity as a service APIs to authenticate and authorize identity of individuals and applications creating a seamless transition from bank website to travel website.
- The service supports the OAuth, OpenID Connect, SAML, Authorize Code, Password, Client Credentials, Authorize Code with PKCE and Refresh Token flow.

### Solar Power Predictor | Python, Tensorflow, Flask, HTML

**July 2018**

- Trained machine learning model using LSTM RNN algorithm to predict solar power output.
- Designed user interface where the user selects the city. In the backend the model fetches the future weather data of the selected city using API and feeds it to the trained model to predict the solar power generation.

## Technical Skills

---

**Languages:** Python, Java, C#

**Cloud:** Amazon Web Services

**Developer Tools:** PyCharm, Jupyter Notebook, Visual Studio, VS Code, Postman, Kibana, Grafana, Consul

**Technologies/Frameworks:** DotNet Core, REST APIs, GraphQL, xUnit, OAuth, OIDC, Jenkins, Docker, Kubernetes, Git, Redis, JWT, Confluence

**Databases:** MySQL, Cassandra

**Machine Learning:** Scikit-learn, Tensorflow

## Education

---

**George Mason University, Fairfax, VA, US**

*Master of Science in Computer Science*

**August 2021 – May 2023**

*GPA: 3.1/4*

**Savitribai Phule Pune University, Pune, MH, IN**

*Bachelor of Engineering in Computer Engineering*

**July 2015 – May 2019**

*CGPA: 8.42/10*

## Leadership/Extracurricular

---

**Association of Computer Engineering**

*Secretary-Technical*

**August 2017 – May 2018**

*Dr. D. Y. Patil School of Engineering*

- Administered labs, students requirements, supervised weekly meetings and oversaw the progress of task in the department.
- Organized a department level inter-college technical festival.

**Transform Maharashtra**

*Campus Ambassador*

**February 2017 – May 2017**

*Dr. D. Y. Patil School of Engineering*

- Promoted the event and encouraged students to share their ideas on how to tackle major problems being faced by the Maharashtra Government.
- Managed end-to-end interaction of students with the event organizers.

## Coursework

---

- |                            |                         |                           |                       |
|----------------------------|-------------------------|---------------------------|-----------------------|
| • Data Structures          | • Software Architecture | • Artificial Intelligence | • Cloud Development   |
| • Software Design Patterns | • Algorithms Analysis   | • Machine Learning        | • Database Management |

**Udemy:** AWS Solutions Architect Associate

**Udemy:** Machine Learning A-Z in Python and R

**Coursera:** Neural Networks and Deep Learning by deeplearning.ai

**Coursera:** Sequence Models by deeplearning.ai

## Paper

---

**Solar Power Prediction using Recurrent Neural Network**

*S. Rathod, A. Pandey, M. Pandey, D. Jha, H. Singh*

**May 2019**

*IJRASET23360*

## Preprint

---

**Power Forecast of Solar Panels Using Machine Learning Techniques: A Survey**

*A. Pandey, M. Pandey, D. Jha, H. Singh, S. Rathod*

**October 2018**

*IJSARTV4I1027796*

---