

# PRATHAMESH YOGESH NADKARNI

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## EDUCATION

Expected in 05/2025 **Masters of Computer Science**

*University of Illinois - Urbana-Champaign*

05/2020

**Bachelor of Technology: Computer Engineering**

*Vishwakarma Institute of Technology - Pune* GPA:

8/10

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## WORK HISTORY

07/2024 to Current **Graduate Hourly**

*University of Illinois – Urbana Champaign*

- Working on creating robust webapp to organize and maintain research papers all over the world using Angular Framework.
- Using Google Firestore for real-time monitoring and management of Database.
- Creating Backend API service with Python Flask.

04/2022 to 12/2023 **Software Engineer**

*Veritas Technologies LLC – Pune*

### Achievements

- Won **Penetration Testing** Competition held by Veritas

### Responsibilities

- Involved as a Full Stack Developer in **Core Security**, working on various user stories, defects and testing
- Acted as Scrum Master using **Agile Software Development**
- Worked and demonstrated multiple POCs and designs for **cloud deployments**

### Projects

- Worked **on Certificate Management utility** to reduce write paths and allow synchronous read/writes and provide error codes
- Working on creating a load balancer service for on various managed cloud **Kubernetes Microservice** architecture
- Worked on testing the entire deployment workflows for Ransomware Protection System on **AWS** and **AKS** systems
- Worked on **APIs** for Ransomware Protection
- Worked on Multi factor authentication for **TOTP** and **FIDO** compliant devices

**Veritas Technologies LLC – Pune**

**Achievements**

- Awarded Level 1 WoW for handling an entire set of **WebUI** enhancements.

**Responsibilities**

- Involved as Full Stack Developer in **Core Security**
- Acted as **Scrum** Master using **Agile Software Development**
- Engaged on various defects ranging from **API** to **WebUI** Development

**Projects**

- Worked on WebUI screens and APIs for **Data in transit Encryption** .
- Engaged in **Certificate Migration** from one platform to another for ease of user

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**RESEARCH**

**RedX, Pune (January 2018 - December 2018)**

*Researcher, Sign Language to Speech Convertor for the Hearing and Speech Impaired*

- Developed a Prototype to convert basic ASL gestures to Text and then to speech using Python.
- Used Computer Vision and Machine Learning to detect a gesture and predict the closest letter to form a word using the letters.

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**TEACHING EXPERIENCE**

- Served as an instructor for the “**Introductory Robotics Course**” at Vishwakarma Institute of Technology in 2018.
  - Served as an instructor for the “**Advanced Robotics Course**” in 2019, where I covered the fundamentals of Computer Vision using Python and the development of Android applications at Vishwakarma Institute of Technology.
  - Conducted “**Robodroid**,” a workshop focused on developing Android applications using in-phone sensors at Vishwakarma Institute of Technology.
  - Led the **Competitive Coding Initiative** Vishwakarma Institute of Technology for Google Kickstart and Hashcode as an instructor.
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## RELEVANT COURSEWORK

- Artificial Intelligence
  - Data Mining Principles
  - Secure Computing
  - User Interface Design
  - Text Information Systems
  - Communication Networks
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## INTERNSHIPS

- **Veritas Technologies LLC, Pune (January 2020 – June 2020)**

Contributed to the development and integration of **YubiKey** as a multifactor authentication solution in NetBackup, ensuring **FIDO 2** compliance. Managed end-to-end workflow, from POCs and drafts to **database management**, **APIs**, and **WebUI** development, within designated timelines.

- **Uniedge Technologies, Pune (March 2019 – May 2019)**

Involved in **Android** application to monitor, automate, and optimize industrial energy consumption.

- **Unithing Technologies LLP, Pune (August 2018 – February 2019)**

Worked on **Android** application to monitor, automate, and optimize home energy consumption.

- **Manman India Pvt. Ltd., Pune (May 2018 – June 2018)**

Engaged with **Android** application to maintain inventory and manage sales while providing information to the users and linking the resources to their pre-existing ERP.

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## ACADEMIC PROJECTS

- **Universal Multifactor Authentication (January 2020 – June 2020)**

- Intended to provide a higher security to users while authentication.
- Created a POC and implemented a feature in NetBackup to include Universal **Multifactor Authentication** for users
- Used **Yubico Key** as a hardware device for 2nd and 3rd factor of authentication (Hardware Key for authenticating Public Key and Human touch)

### **Augmented Reality Shootout (August 2019 – December 2019)**

- Aimed at developing an online game that can be played anywhere from within any building or selected space.
- Developed an **Android Application** connected to a gun, comprising of a small piezo switch to be used as a trigger and a gyroscope to check orientation of the gun and **HCo5** to transmit the present user data to the phone.
- Used Unity and Android Studio to develop the game.

### **Campus Navigation AR App (Sponsored by Persistent Technologies)** **(August 2018 – May 2019)**

- Intended to detect the location of a person in the campus and provide information regarding the area using **Augmented Reality**
- Designed an **AR** application that used **Wi-Fi Triangulation** and sensors in phone like accelerometer and gyroscope to detect precise user location. • Used Unity and Android studio to develop the application

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## **CERTIFICATIONS**

- Completed course in Advance Your Skills in Deep Learning and Neural Networks from LinkedIn Learning (2020)
  - Got a certificate course on Artificial Intelligence for Project Managers from LinkedIn Learning (2020)
  - Received certification in Master the fundamentals of AI and Machine Learning from LinkedIn Learning (2020)
  - Earned certification in NLP with Python for Machine Learning Essential Training from LinkedIn Learning (2020)
  - Finished the course in AI accountability Essential Training from LinkedIn Learning (2020)
  - Accomplished the course on Artificial Intelligence Foundations: Machine Learning from LinkedIn Learning (2020)
  - Got skilled in Building Deep Learning Applications with Keras from LinkedIn Learning (2020)
  - Completed 1-Month Global Internship Program at NTU, Singapore (2016)
  - Completed Grade 1 in Guitar from Trinity College of Music, London. (2013)
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## ACCOMPLISHMENTS

- Attained world-wide rank 5630 in Google Kickstart (2020)
  - Received All India Rank-9 ABU Robocon 2019 held at IIT, Delhi (2019)
  - Attained All India Rank -6 in ABU Robocon 2018 held at Balewadi Stadium, Pune (2018)
  - Won the First prize in the Navonmesh Project Competition at Vishwakarma Institute of Technology, Pune (2018)
  - Mentor for National Toycathon, team ranked in top 1%. Developed a version of Indian Monopoly using Augmented Reality.
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## SKILLS

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| • Programming : C++, Java, Python, JavaScript, C | • Software Package : LinuxR, LinuxS, Windows, Ubuntu, Android ,   |
| • Web Development : Angular, A-Frame, Babylon Js | Kubernetes , Docker   |
|  | • Tools/Technologies : Envoy, Git, AKS, Amazon EKS, Sentinel, Visual Studio, Microsoft Office, Unity, Android Studio, Vuforia, Wikitude |