



# BHUVANESWARI GNANASEKAR

Yonkers, NY [Bhuvaneshwari-Official-website](#)



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## SKILLS

### ✓ Programming Languages

- Proficient in **Java, Python, C++ programming language**, with practical experience in developing applications
- Ability to identify and fix code issues using **debugging** tools and techniques, improving application **stability**.
- Experience in connecting Java applications to databases using **JDBC**, performing **CRUD** operations, and handling transactions
- Understanding of web development concepts with Java, including Servlets and JSP, and basic front-end technologies like **HTML and CSS**.
- Experience in creating and managing **multiple threads** in Java applications to achieve concurrent execution and improve performance

### ✓ SQL Database

- Can write complex requests using **subqueries**
- Know how to apply effectively Joins and Unions
- Familiar with the use of Aliases and **Wildcards**

### ✓ Manual testing

- Can perform manual functional and usability testing of **web-applications**
- Gained hands-on experience by **testing applications** created for Industrial purposes

### ✓ UI

- Proficient in writing clean and semantic **HTML** code, creating the structure and content of web pages.
- Strong understanding of CSS styling, including **selectors, box model, layout techniques, and responsive design principles**.
- Experience in writing **JavaScript** code to add interactivity and dynamic behavior to web pages, including **DOM** manipulation and event handling.
- Proficiency in developing web applications using the **Angular framework, including components, services, routing, and reactive forms**
- Experience in using the Angular CLI for project scaffolding, building, and deploying Angular applications.
- Ability to create **responsive web designs** using CSS media queries and frameworks like Bootstrap or Flexbox.
- Knowledge of **Angular Material**, a UI component library for Angular, for creating consistent and visually appealing user interfaces

### ✓ ML & Data Science Framework

- Proficient in utilizing **scikit-learn, Pandas, Pytorch and Keras** for building and training machine learning models.
- Applied these frameworks to various tasks such as classification, regression, clustering, and deep learning

## TOOLS

- |         |                           |                    |            |
|---------|---------------------------|--------------------|------------|
| • CMake | • Spring Framework        | • Windows · MacOS  | • Anaconda |
| • AWS   | • Browser developer tools | • Tableau · Pandas | • Docker   |

## PROFESSIONAL EXPERIENCE

### ✓ Virginia Tech

Aug 2021– Jan 2021

*Graduate Teaching Assistant- Networks and Protocols*

- Assisted professor with lesson planning, prompt assistance, record keeping, performance tracking, and grading papers for graduate level 'Networks and Protocols' course

### ✓ 360 Ripples Private Limited

Jan 2020– May 2020

*Software Engineer Intern – Testing, Development & Support (Ticketing/ Attendance/Payroll Domain)*

- Developed an automatic attendance detection system portal that improved attendance and payroll by taking an image as input. The system detected and identified all the faces in the image and marked their presence.
- Writing Manual test scripts using selenium web driver, preparing the testing documents, to understand what needs to be tested, develop test cases and prioritize testing activities, execute all the test cases and report the same to the developers, to do the regression test of the project in all phases

## Education

### ✓ MEng in Computer Engineering | 3.62 GPA

Aug 2021 - Dec 2022

*Virginia Tech · VA · USA*

### ✓ B.E in Computer Science & Engineering | 73%

Jun 2016 - May 2020

*Anna University · Guindy · India*

**Relevant Coursework:** Programming and data structures, Computer networks, Advanced machine learning, Data analytics, Application of machine learning, Cyber security and IoT, Object oriented programming, Software Testing

## PROJECTS

### ✓ Voice Activated Cloud-based Drone Assistant

- Developed a cloud-based completely voice-activated home automation drone that requires a virtual assistant to pass commands
- Designed it to search and detect an object that the user requests in a closed environment
- Built it to be cloud-native and highly scalable, ensured components are all containerized and can be scaled based on demands