ASHWIN SHENOLIKAR

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A curious software engineer with expertise in Full-Stack Development, particularly with Java and Python Frameworks.

EDUCATION

- **Virginia Polytechnic Institute and State University** — August 2021 - May 2023
  Master of Engineering, Computer Science — GPA: 3.74/4
  Relevant Courses: **Software Engineering**, **Web App Development**, Mobile App Development, Info. Security, Urban Computing
- **University of Mumbai – AP Shah Institute of Technology** — August 2016 - June 2020
  Bachelor of Engineering, Computer Science and Engineering — GPA: 7.81/10
  Relevant Courses: **Adv Data Structures & Algorithms**, Database Management Systems, Object Oriented Programming

TECHNICAL SKILLS

Programming Languages:	Python, Java, C, C++, MySQL, MongoDB, Shell Scripting, Kotlin
Web Development:	Vue.js, JavaScript, jQuery, Typescript, React.js, Node, HTML, CSS
Cloud:	AWS, Docker, Kubernetes
Tools and Frameworks:	SpringBoot, Django, Flask, Git, Jira, NPM, Maven, Tableau, Postman, Linux, Windows

PROJECT EXPERIENCE

Campus Job Portal — August 2022 - December 2022
*Vue.js, JavaScript, Java, **SpringBoot**, MySQL, Figma, Kubernetes*

- Developed a networking and job portal for Virginia Tech, connecting students, professors, and staff; consisting of **16 RESTful API calls** made in the backend in a 5-person collaboration.
- Implemented a scalable and modular **recommendation engine** for jobs and applicants, streamlining the on-campus research job application process through a unique portal experience, ensuring reliability and powerful performance.
- Fast-tracked the application process **300%** through the portal's recommendation system, avoiding cluttered emails.

Online Bookstore Web Application — August 2022 - December 2022
*Vue.js, **Typescript**, Java, JDBC, JEE, **MySQL**, Pinia, Figma*

- Designed and coded an online bookstore, where users to order books from a multi-genre catalog, with a **functional shopping cart**, with 12 REST APIs and 5+ backend packages.
- Deployed **bundled JAR** on Virginia Tech's Kubernetes Cluster; performed **unit testing** for all transactions and user inputs.

Movie Ticket Reservation System — January 2019 - May 2019
Java AWT, JDBC, MySQL

- Formulated and developed a **Java AWT application** with MySQL Database, incorporating a **Singleton** pattern and **Factory** pattern using agile methodology.
- **Features:** Users can perform Ticket Reservation for current movies, existing bookings, receipts, **Seat availability**, seat selection, Account Creation, Booking history, **Payment validation**, **Exception handling** for double bookings.

Maze Solving Bot - IIT Technical Fest — July 2019 - September 2019
Arduino, C++, Sensor Interfacing

- Constructed a physical bot as an embedded systems project for **maze navigation**, to detect and remember turns on a path using sensors, performing **path optimization** for a second run, without any external input.
- Achieved **100% accuracy** in multiple runs and edge cases, **testing** complex path inputs and physical settings.

WORK EXPERIENCE

Software Engineer Intern — June 2019 – August 2019
Nucsoft Ltd — *Mumbai, India*

- Created an embedded system with onboard **web server** to control multiple HVAC systems improving energy usage by 14%.
- Coded **C++ backend** and **JavaScript+jQuery** web server and deployed on ESP8266 micro-controller with minimal latency.

CERTIFICATIONS

- Coursera:**Google Cloud**
- IBM: Cloud Computing
- Coursera:**DeepLearning.AI**
- **Adv. Java** by Aptech Ltd

ACHIEVEMENTS AND LEADERSHIP

- **Technical Head of Exalt:** Managed and led 8-student team to organize and oversee events in the collegiate technical festival, with **guest** count of over **300**.
- **Core Council Member at Computer Society of India-College Chapter:** Implemented strategies for technical and non-technical events, facilitating student-faculty engagement with departmental strength of **over 250 students**.
- **Graduate Assistant at VT Innovation Campus** : Spearheaded successful office events with the Administrative Head including other tasks such as event management, inventory management, **IT**, security, and others as needed.