ASHWIN SHENOLIKAR

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EDUCATION

Virginia Tech — Falls Church, VA
Master of Engineering in Computer Science; GPA: 3.70 — *Aug 2021 – May 2023*

University of Mumbai: A.P. Shah Institute of Technology — Mumbai, India
Bachelor of Engineering in Computer Science; GPA: 3.33 (7.81/10.0) — *Aug 2016 – Nov 2020*

- **Relevant Courses:** Software Engineering, Web App Development, Mobile App Development, Information Security, Urban Computing, Advanced Data Structures & Algorithms, DBMS, Object-Oriented Programming

EXPERIENCE

Virginia Tech — Falls Church, VA
Software Engineer — *Aug 2023 - Present*

- Incorporated **machine learning models** within VTISE's internal projects using **Python, Java and JavaScript Frameworks** and developed features for MSE website, increasing student interaction
- Researching Reinforcement Learning-based approaches for 5G network performance and efficiency optimization
- Implemented **CI/CD pipelines** for enhanced software functionality boosting system performance and reliability by 17% and devised automation scripts

Virginia Tech, Innovation Campus — Alexandria, VA
Graduate Assistant — *Jan 2022 - Dec 2022*

- Enhanced workplace efficiency by 33% through **technical support initiatives**, optimized daily operations, security oversight provision, and comprehensive inventory management with 30+ item types
- Orchestrated successful office events, achieving a **50% improvement** in execution and customer satisfaction

Nucsoft Ltd — Mumbai, India
Software Engineer Intern — *Jun 2019 - Aug 2019*

- Engineered IoT Remote, equipped with an onboard **web server** to control multiple HVAC units for power and temperature settings and operating modes, reducing energy usage by 14%
- Coded C++ backend using Arduino IDE and frontend with JavaScript and jQuery to create web server uploaded on ESP8266 micro-controller with less than 1 second latency responses

PROJECTS

- **Campus Job Portal - Full Stack Web App:** Created networking portal with 5-member team, implementing 20+ RESTful API calls and Vue.js webpages with a **recommendation system**, streamlining job applications and achieving 300% faster processing and reducing email clutter
- **Cracking The Coding Interview - Open Source:** Contributed to an **open-source** initiative consolidating **Python** solutions and explanations for challenges in 'Cracking the Coding Interview'
- **Online Bookstore - Web Application:** Designed an online bookstore with a multi-genre catalog, functional shopping cart, and 12 **REST APIs** using 5+ custom packages; deployed on VT's **Kubernetes Cluster** ensuring 100% system stability verified through **unit testing**
- **Meshmerize - Maze solving Bot:** Constructed a **C++** Maze Solving Bot with dual-pass navigation for 100% route efficiency
- **Code Summarization - PyTorch & Deep Learning:** Developed a BERT-based Deep Learning model to read Java code and **generate meaningful comments** explaining code behavior and performed extensive **data manipulation** to prepare data for model learning
- **Music Genre Classification - Librosa, Keras:** Modelled multiple learning agents to process raw music audio and classify into music genres with 87% accuracy
- **Portfolio Website - Next.js:** Devised a portfolio website with 10+ components, 5+ external links, and dual-mode visuals using React, **Next.js**, and Tailwind CSS

PROGRAMMING SKILLS

Languages: Python, Javascript, Typescript, C, C++, SQL, Java, Bash/Shell, Kotlin, HTML/CSS, jQuery
Technologies: AWS, Spring Boot, React, Vue, Git, Docker, Arduino, Jira, Maven, Figma, Linux, Django
Data Science & ML: PyTorch, Tensorflow, sklearn, NLP, Computer Vision, numpy, pandas, matplotlib