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

- **George Mason University**   Fairfax, VA
  Software Developer   *Mar 2024 - Present*
  - Solely managed and developed the **entire frontend** of a high-performance injury documentation system using **Next.js and TailwindCSS**, crafting 15+ reusable and dynamic components and ensuring scalability
  - Integrated RESTful APIs and custom Golang middleware services to streamline data, image, and authentication processing
  - Crafted custom data ontologies to structure sensitive health information, enabling secure, efficient retrieval of injury records within a high-performance informatics platform

- **Virginia Tech**   Falls Church, VA
  Software Engineer   *Aug 2023 - Feb 2024*
  - Researched Reinforcement Learning-based approaches for 5G network performance and efficiency optimization using **OpenAI Gymnasium**, Tensorflow, and 5G LENA
  - Incorporated **Full-Stack applications** within VTISE's internal project using **React.js and Python** for back-end scripts and upgraded features for MSE website
  - Optimized software functionality, boosting system performance by 17% and devised **Python automation scripts**

- **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 10+ solutions 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 Maze Solver bot with dual-pass navigation for 100% route efficiency
- **Code Summarization - PyTorch & Deep Learning:** Introduced 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

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