AASHNA NITIN KUNKOLIENKER

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A Computer Engineering student with experience in networking, web development, and machine learning. Keen to apply my skills in internships to solve real-world challenges.

EDUCATION

- **New York University, Tandon School of Engineering** — *New York, USA*
  M.S. in Computer Engineering — *September 2023 - Current*
  First semester GPA: 3.933/4
  Course Assistant for 'CS3083 - Database Systems' — *September 2024 - Current*

- **Manipal Institute of Technology, Karnataka, India** — *Manipal, Karnataka*
  B. Tech in Computer Science and Engineering — *July 2019 - May 2023*
  Minor specialization: Computational Intelligence
  Cumulative GPA: 9.01/10

WORK EXPERIENCE

L&T technology services, Peoria, Illinois | *Embedded software Intern* — *May 2024 - August 2024*

- Wrote a Python automation script for autofilling captchas on the eserv.ltts.com time entry portal, utilizing VisionAPI and Tesseract, and validated its effectiveness through extensive testing with 50 captcha samples.

Nutanix Inc, Bengaluru, India | *Systems Reliability Engineer* — *January 2023 - June 2023*

- Diagnosed and resolved Nutanix AHV (Virtualization platform) related technical issues encountered by customers, enhancing product serviceability.
- Skills used: Networking, Linux(CLI Administration), Storage analysis, Operating Systems, Windows troubleshooting, Virtualization(VMware ESXi and Nutanix AHV), and Cloud Computing.

Siemens Ltd., Goa, India | *Computer Vision Intern* — *July 2021 - August 2021*

- Developed a code solution for the a camera installed on the Siemens shopfloor, enabling identification and conversion of serial numbers from approximately 500 devices that passed daily into text.
- Used OCR technology to capture data, connecting it to a Microsoft PowerApp for storage and display.

ACADEMIC PROJECTS

Generating CBOE Volatility Index values using GANs | *NYU* — *June 2022*

- Used Generative Adversarial Networks (GANs) to generate realistic CBOE volatility Index data, addressing challenges posed by the dataset's limited features and Gaussian nature interspersed with random spikes.
- A comparative analysis of GAN architectures including LinGAN, ResNetGAN, Attention GAN, Vanilla GAN, CGAN, and WGAN was performed, analysing their ability to capture the distribution.
- Developed and tuned the hyperparameters of a wasserstein GAN model and used further advanced statistical techniques for the final solution.

Five stage RISC-V processor simulator | *NYU* — *February 2023 - June 2023*

- Developed a comprehensive RISC-V processor simulator addressing RAW dependencies and control hazards.
- Skills utilized: Profound understanding of pipelining stages (ID, IF, EX, ME, WB) and proficient in C language.

TECHNICAL SKILLS

- Tensorflow, Pytorch, SQL, AWS services, Linux(CLI administration and troubleshooting), Docker, Computer Networking, C, C++, Java, Python, JavaScript, CSS, HTML, openCV, Django, Git,, CUDA C, Cisco Packet Tracer, Wireshark, Advanced Arduino, PlatformIO programming, embedded C
- **Cisco Certified Networking Associate (CCNA)** — *February 16th, 2022*

EXTRA-CURRICULAR CERTIFICATIONS

Trinity College of London

- Grade 8: Western Classical Piano, Grade 7: Theory of Music, Grade 6: Alto Saxophone, Grade 6: Western Concert Flute, Grade 5: Electric Guitar, Grade 8: Speech and Drama (Performing Text)