NATHAN SCHNEIDER

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nschneider.dev | LinkedIn | Github

EDUCATION

Dartmouth College, Hanover, NH   **June 2022**
Bachelor of Arts, Major in Computer Science, Minor in Engineering Sciences   **GPA 3.80**
Relevant Coursework: ML, AI, Reinforcement Learning, Discrete Mathematics   **Major GPA 3.88**
Honors/Awards: Citation for Meritorious Performance in Introductory CS, OOP, Machine Learning

SKILLS

Programming Languages: Java, Python, JavaScript/Typescript, Bash, Go
AWS / Cloud Computing: AWS CDK, Sagemaker, Lambda, Cloudwatch, Cloudformation, S3, DynamoDB
Machine Learning: Tensorflow, scikit-learn, OpenAI Gym, Jupyter Notebook
Data Science: R, RStudio, Tidyverse, NumPy, Pandas, Pyplot, SQL
Productivity: Git, Slack, Github, Zoom, Microsoft Office, Google Drive, Zenhub
Other: Strong communication skills, Diverse mathematics background, Interdisciplinary team experience

WORK EXPERIENCE

Amazon Web Services, Seattle, WA   **September 2023 - Present**
Software Development Engineer, AWS Bedrock
- Designed and implemented customer-configurable PII detection and redaction guardrails for AWS Bedrock LLMs
- Led operational efforts to use AWS CDK IaC to expand and deploy service infrastructure globally
- Collaborated with machine learning scientists to benchmark and deploy NLP models at scale
- Leveraged foundation models to detect and intervene in user's attempts to circumvent LLM content moderation

Amazon Web Services, Seattle, WA   **August 2022 - September August**
Software Development Engineer, AWS IoT
- Developed open-source software components to ensure high availability for intelligent edge systems
- Deployed services to AWS EC2, with CI/CD pipelines, test automation, and AWS Cloudwatch monitoring

Amazon Web Services, Seattle, WA   **May 2021 - September 2021**
Software Development Engineer Intern, AWS IoT
- Through investigation and research, diagnosed and defined team productivity losses
- Designed and implemented a cloud based hardware mutex for collaboration and automation in software testing

Laboratory for Atmospheric and Space Physics, Boulder, CO   **June 2019 - September 2019**
Data Science Intern, Institute for Modeling Plasmas, Atmospheres and Cosmic Dust (IMPACT)
- Interpreted analytic goals from space scientists into actional software design and implementation
- Using Python and LabVIEW, create a database analysis tool to assess accelerator functionality
- Provided curated graphics and metrics for novel insights on both live and historical data

PROJECT EXPERIENCE

MANI: Gesture Controlled Virtual Assistant   **November 2022 - June 2022**
- Led a team of peers develop a gesture-based virtual assistant, utilizing computer vision and machine learning
- Integrated Mediapipe Hands for feature analysis to scikit-learn time-series models for gesture classification
- Optimized pose tracking computer vision models using Google Coral tensor processing units (TPUs)
- Deployed software and motorized robotic peripherals on Raspberry Pi computers