Arthur Y. Vartanyan

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Education

Georgia Institute of Technology Jan 2022 - May 2025 (Tentative)
MS, Computer Science *Online*

University of Washington Aug. 2013 – May 2018
BS, Mathematics *Seattle, WA*

Experience

Software Engineer 2 Nov. 2021 – Feb. 2024
Expedia *Seattle, WA*

- Developed a Kotlin eCommerce backend booking service serving 5000+ users/day, generating $200,000 USD/day in revenue, with 99.9% uptime.
- Handled the migration of Hotels.com across 4 different point of sales to the eCommerce backend service, resulting in an additional 5000 users/day in traffic.
- Improved fault tolerance of CI/CD pipelines by implementing canary deployments and rollbacks, reducing production downtime.
- Oversaw the integration of a pull request testing pipeline, streamlining testing process for each PR and accelerated feature delivery.
- Maintained 95%+ unit test code coverage across 3 applications, resulting in a decrease in production bugs.
- Mentored 3+ junior engineers, enabling quicker deliveries and encouraging professional growth.

Developer, Lead Developer March. 2019 - Nov 2021
Wipro *Redmond, WA*

- Automated creation of over 50 million 5x5 tokens per month in C#, significantly increasing gift card capacity.
- Led the implementation of automated printing of more than 20 million 5x5 tokens per month, reducing turnaround time and ensuring quick delivery of gift cards into stores.
- Led the implementation of automated editing of information for over 5 million tokens per month, enabling users to quickly correct mistakes.
- Translated stakeholder needs into functional requirements.
- Coached and directed a team of three developers, leading to on-time delivery of complex projects.

Projects

Chord Predictor | *Github Link (Click me!)*

- Coded an ML agent in sklearn that achieved 99% accuracy predicting Triad chords, demonstrating a strong grasp of Machine Learning algorithms and pursuit of challenging projects.

OpenAI Lunar Lander | *Github Link (Click me!)*

- Programmed a deep Reinforcement Learning using PyTorch and CUDA to land openAI's lunar lander with over 90% success rate, showcasing a strong understanding of Deep Learning, Reinforcement Learning, and modern-day techniques.

Georgia Institute of Technology | *Machine Learning Specialization* Jan 2022 – Present

- Designed an AI agent in Python that achieved an 87% accuracy in solving Raven's Progressive Matrices demonstrating theoretical understanding and practical application of AI techniques.
- Applied machine learning algorithms to diverse datasets, refining model performance metrics such as accuracy, precision, and recall, showcasing proficiency in data analysis and algorithm development.
- Designed a multi-agent deep reinforcement learning agent to play 5 different Overcooked levels, showcasing advanced skills in deep reinforcement learning and recreation of published papers.

Technical Skills

Languages: Java, Kotlin, Python, SQL, JavaScript, HTML/CSS, C#, YAML
Frameworks: gRPC, HTTPS, REST, Spring, Spring Boot, .NET, jQuery
Developer Tools: Github, Github Actions, Docker, AWS, Kubernetes, Spinnaker, Splunk, Datadog
Libraries: PyTorch, sklearn, pandas, NumPy, Matplotlib, Tensorflow