Varun Maudgalya

Sunnyvale, CA | vmaudgalya@gatech.edu | U.S. Citizen

EDUCATION

GEORGIA TECH

MS in Computer Science
Specialization: Machine Learning
College of Computing
GPA: 4.0 / 4.0

BS in Computer Science
Specialization: AI + Networking
College of Computing

SKILLS

LANGUAGES

I've worked with:
Python • C/C++ • Java
R • Objective-C/Swift • Android
Node.js • React • Bash

TECHNOLOGY

Tensorflow • Keras • PyTorch
NumPy • SciPy • Pandas
scikit-learn • Git • Unix • Vim
PostgresQL • MySQL
RDF Triplestore • Graph databases

COURSEWORK

GRADUATE

Deep Learning
Reinforcement Learning
Intro to Analytics Modeling
Machine Learning for Trading
Robotics: AI Techniques
Human-Computer Interaction
Computational Photography
AI, Ethics and Society

UNDERGRADUATE

Machine Learning
Game AI
Robotics and Perception
Artificial Intelligence
Design and Analysis of Algorithms
Data Structures and Algorithms

ORGANIZATIONS

2012 ACM
2012 GT Programming Team

LINKS

Github:// **vmaudgalya**
LinkedIn:// **vmaudgalya**

EXPERIENCE

APPLE | Machine Learning Engineer

July 2016 – Present | Cupertino, CA

- Leading end-to-end development of real-time deep learning + sensor fusion technology which enables novel device interactions on new hardware.
- Worked with Siri's founding team to ideate, rapidly prototype, pitch, and ship next-generation artificial intelligence features for Siri and the Apple ecosystem.

PAYPAL | Software Engineer 2

August 2015 – June 2016 | San Jose, CA

- Reduced all merchant-related page loads across PayPal by 75% via designing, developing, and deploying to production a platform for internal and 3rd-party apps, enabling Merchant Engineering to migrate to a shared-data architecture.
- Reduced application memory consumption by 90%, via designing and implementing a metadata-driven application which intelligently loaded content.

PAYPAL | Software Engineering Intern

May 2014 – August 2014 | San Jose, CA

- Reduced merchant onboarding time by 90% by building a PoC on Android which used OCR on the user's driver's license to extract personal information.
- Reduced engineering development cycle time by 80% via implementing core features within PayPal's Android deployment infrastructure.
- Co-invented, designed and developed an unannounced product at eBay, Inc.

EBAY | Software Engineer

May 2013 – Aug 2013 | San Jose, CA

- Contractor for eBay on the PayPal Here Hardware Research team.
- Increased data ingestion rate by 10x via design and development of an Android application and data pipeline, saving $1MM+/year in costs.
- Used Android, Java, SQL, for system and Python for data analytics.

APTMOBILITY | Software Engineering Intern

May 2012 – August 2012 | Campbell, CA

- Developed features of a native iOS application in Objective-C for UCSF.

PROJECTS

STOCK TRADING AI | Python

Built a trading bot using Q-learning. The learned policy used by the bot generated trades based on a 20-day Simple Moving Average and slippage. On average, the bot was able to realize cumulative returns of 7% per year.

SELF-DRIVING ROBOT | Python

Implemented A* planning and SLAM based navigation, enabling a robot to navigate a warehouse, to pick up boxes and to deliver them into a drop zone.

SNAFUSPLIT | Android • Python

Designed and implemented a receipt-splitting app which was awarded 1st place at the Georgia Tech Convergence Innovation Competition. OCR was performed on Flask back end, with integrated payments via Venmo and SMS.

AWARDS

2015	1st Place	Georgia Tech Convergence Innovation Competition
2013	Finalist	MHacks Hackathon