Ahmed Amin

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Education

Temple University, College of Engineering — Philadelphia, Pennsylvania
Bachelor of Science in Mechanical Engineering (GPA: 3.14) — Graduated: May 2020

Relevant Experience

Unlaunched startups and personal projects — Philadelphia, Pennsylvania
Software Engineering — Jan 2021 - Present

- Created CI/CD related tools for automating building and deployment of yarn-based monorepos via Kubernetes API and programmatically generated configurations.
- Created a scalable scraping system for scraping AliExpress products and reviews using NodeJS, MongoDb, and Kubernetes.

Amazon — Philadelphia, Pennsylvania
Warehouse Associate — Jun 2019 - Aug 2019, Aug 2020 - Dec 2022

- Managed Amazon Fresh batching system - corrected associate errors and managed/monitored drivers.
- Developed a program to improve warehouse efficiency utilizing NodeJS. Increased warehouse scalability and provided an estimated yearly labor savings of >$50k per warehouse.

Coder's Market (unlaunched startup) — Philadelphia, Pennsylvania
Software Engineering — Mar 2019 - Nov 2019

- Worked with a team of students / entry level professionals to create a startup to improve access to robotics and machine learning algorithms.
- Worked on a serverless backend/API. Utilized NodeJS, Serverless Framework, AWS Lambda, DynamoDB, API Gateway, and Docker/Docker Compose. Learned the basics of Javascript, DevOps, and clean code.

AlphaPilot 2019: Drone Racing AI Challenge — Philadelphia, Pennsylvania
Machine Learning and Computer Vision — Mar 2019

- Worked with a team of students to implement computer vision/object detection algorithms.
- Used convolutional neural networks and transfer learning to detect objects in images.
- Cleaned datasets and used Docker to set up an environment for GPU training.

Temple University — Philadelphia, Pennsylvania
Undergraduate Researcher — May 2017 - July 2017

- Research and prototyping in Soft Robotics
- Utilized Solidworks, 3D printing, and soft robotics.

Additional Information

- **Primary skills**
  - **Backend dev:** DevOps, CI/CD, Kubernetes, microservices, databases.
  - **Machine learning and control -** Neural Networks, ConvNets/computer vision, robotics/classical control/PID
- **Secondary skills -** Frontend, mechanical engineering (robotics, control, vibrations, CAD).
- **Tools and Frameworks used**
  - **DevOps tools:** Kubernetes, Docker, Github Actions, Skaffold, Serverless Framework, Postgres, Redis, MongoDB, GKE, Scaleway, AWS.
  - **Programming and dev tools**: Typescript/Javascript, NodeJS, Svelte, Vue, PyTorch, Matlab.