Sergey Savelyev
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Education

- **Georgia Institute of Technology (4.0/4.0)** — Atlanta, GA
  BS/MS in Computer Science - Highest Honors — *Aug 2017 – May 2021*

Skills

- **Languages**: Python (Proficient), Java (Proficient), C++ (Proficient), Kotlin, JavaScript, C, R, C#, SQL
- **Technologies**: MongoDB, React, Express, Node, Semantic, TensorFlow, Keras, PyTorch, NumPy, PostgreSQL, Spring, Maven, Gradle, Git, Mercurial, JetBrains, Amazon Web Services (Lambda, IoT Core, EC2, DynamoDB, Route53, API Gateway, FreeRTOS, SageMaker), Google Cloud Platform (Compute Engine, Kubernetes Engine)
- **Concepts**: Object-oriented programming, machine learning, data science, algorithmic analysis, combinatorial analysis, gradient descent, deep reinforcement learning

Experience

- **Raytheon BBN** — Cambridge, MA
  Software Development Intern — *May 2020 – August 2020*
  - Developed an interfacing system to abstract away the differences in radio hardware from the end user.
  - Coordinated development of the interfacing system with other interns.
  - Built an ML model using a recurrent neural network to predict future radio network stability with 90% accuracy.
- **Robotics and Intelligent Machines Lab** — Atlanta, GA
  Undergraduate AI Researcher (Undergraduate Thesis) — *Sep 2018 – May 2020*
  - Created an AI for Reconnaissance Blind Multi-Chess.
  - Implemented particle filter for tracking plausible chess board configurations.
  - Developed an agent using a joint movement and scanning policy through Deep Reinforcement Learning and Monte Carlo Tree Search.
- **Nutanix** — San Francisco, CA
  Software Development Intern — *May 2019 – Aug 2019*
  - Deployed system to production to support multiple clusters for login and authentication using React, Node, Express, and MySQL.
  - Coordinated across teams to double customer capacity by effectively routing load to GCP resources.
  - Created a website to manage customers across thousands of servers.
- **DataScan** — Alpharetta, GA
  Software Development Intern — *May 2018 – Jul 2018*
  - Implemented dependency injection in over 50 classes.
  - Refactored codebase to support multiple deployment environments.
  - 5 times improvement in application speed by utilizing batch processing.
  - Increased test coverage from 3% to 100% for all endpoints.

Miscellaneous

- **Theory** — https://theoryiot.com
  Co-Founder & CTO — *Sep 2017 - Present*
  - Internet of Things startup targeted at renters. Funded in part through Georgia Tech.
  - Wrote microcontroller code in C++ to coordinate Theory devices in the home.
  - Designed protocol for secure communication within the home.
  - Oversaw all architectural designs to ensure code scalability and security.
  - Presented to business partners and created financial forecasts.

Other

- **RoboJackets RoboRacing**
  Software Engineer
- **Chick-Fil-A Hackathon**
  2018: 1st Place