

[Intuition Machines, Inc.](#)

2019 Senior Backend Software Engineer – Job Description

Interested in working on hard problems at scale?

IMI builds ML (Machine Learning) products and services used by some of the largest companies in the world. Come join our veteran team of machine learning and distributed systems experts, hailing from Stanford, MIT, Apple, Amazon, and Google. Maybe you can teach us a thing or two!

The services we provide need to be highly scalable, always available, and globally accessible. They also need to adapt to various automated and manual behavioral attacks. This introduces many hard problems that require state-of-the-art solutions, some of which we are inventing as we go.

We offer a variety of enterprise AI/ML products and services. For example, our hCaptcha offering creates a global marketplace matching firms needing data annotated for ML purposes with website owners who need to protect their site from bots and want to get paid for the work their users do to prove their humanity, and is used by millions of people each month.

We also conduct original ML research in areas like unsupervised and active learning, motivated by the unique problems and datasets we have as one of the larger users of cloud resources for ML. Our work is geared towards applying some of our more theoretical ideas, as we believe this is one of the best ways to push forward the field.

We have a strong commitment to open source, and you may well find yourself working on projects that are released to the world.

We are comfortable with remote work and have widely distributed teams, but engineering offices in San Francisco, CA and Helsinki, Finland are available for you if you happen to be nearby.

Functional skills

Some combination of the following (not all are required, but the more the better):

- **Professional or Open Source Python experience [Required]**
- **Experience in developer practices like CI/CD, unit vs other testing paradigms, able to document and design new software projects [Required]**
- Experience working and communicating within a distributed team

- Linux and Unix skills
- Experience with managing app-based containers, ideally Docker/Kubernetes
- DevOps or ops of a large scale, high availability distributed system
- Experience with Redis, Postgres, AWS, Azure
- Front-end development skills (Javascript, React, DOM, etc)
- An academic or professional background in machine learning, applied math, or physics
- Blockchain exposure and Solidity development expertise

Depending on your skills and preferences, you may work with some of our research scientists to take their work into production, or improve the infrastructure used for training and inference. The research group works primarily in Python, with PyTorch and Tensorflow being our preferred tools.

Role and responsibilities

As a senior engineer in a rapidly growing startup, your responsibilities will be fairly broad: we have a fairly flat structure and encourage everyone to wear multiple hats based on their talents.

However, anyone in this role is expected to be capable of tasks like:

- Designing, architecting, communicating technical designs and improvements to high capacity, highly available systems
- Writing clearly structured, maintainable, well documented and tested code that meets our requirements and goals
- Sharing knowledge with the team and mentoring others as needed
- Performing occasional on-call shifts with the ability to resolve incidents and follow up on engineering changes. We have engineers in enough time zones that on-call shifts generally occur during the work day, but we all take turns on escalation.

Applying

Please send your CV, github profile, and a brief description of what most interests you, along with your dates of availability and location (or specify remote): jobs@imachines.com.

We would like to see an existing portfolio of work or references that can speak to your programming skills. This is not mandatory: some people work for years without having the chance to publish their work, and we understand that. If your public body of work is not representative of your talents, we may offer you the chance to complete a challenge instead.

IMI does not discriminate on the basis of race, creed, color, ethnicity, national origin, religion, sex, sexual orientation, gender expression, age, height, weight, physical or mental ability, veteran status, military obligations, or marital status.