

# John Doe

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## Summary

AI researcher and entrepreneur with a track record of publishing at top venues (NeurIPS, ICML, ICLR) and translating research into products used by millions. Currently building [Nexus AI](#), a VC-backed infrastructure company for efficient large model deployment.

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## Education

Sept 2018 – May 2023

**Princeton University**, PhD in Computer Science – Princeton, NJ

- Thesis: Efficient Neural Architecture Search for Resource-Constrained Deployment
- Advisor: Prof. Sanjeev Arora
- NSF Graduate Research Fellowship, Siebel Scholar (Class of 2022)

Sept 2014 – June 2018

**Boğaziçi University**, BS in Computer Engineering – İstanbul, Türkiye

- GPA: 3.97/4.00, Valedictorian
- Fulbright Scholarship recipient for graduate studies

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## Experience

June 2023 – present

**Co-Founder & CTO**, Nexus AI – San Francisco, CA

- Built foundation model infrastructure serving 2M+ monthly API requests with 99.97% uptime
- Raised \$18M Series A led by Sequoia Capital, with participation from a16z and Founders Fund
- Scaled engineering team from 3 to 28 across ML research, platform, and applied AI divisions
- Developed proprietary inference optimization reducing latency by 73% compared to baseline

May 2022 – Aug 2022

**Research Intern**, NVIDIA Research – Santa Clara, CA

- Designed sparse attention mechanism reducing transformer memory footprint by 4.2x
- Co-authored paper accepted at NeurIPS 2022 (spotlight presentation, top 5% of submissions)

May 2021 – Aug 2021

**Research Intern**, Google DeepMind – London, UK

- Developed reinforcement learning algorithms for multi-agent coordination
- Published research at top-tier venues with significant academic impact
- ICML 2022 main conference paper, cited 340+ times within two years
- NeurIPS 2022 workshop paper on emergent communication protocols
- Invited journal extension in JMLR (2023)

- May 2020 – Aug 2020 **Research Intern**, Apple ML Research – Cupertino, CA
- Created on-device neural network compression pipeline deployed across 50M+ devices
  - Filed 2 patents on efficient model quantization techniques for edge inference
- May 2019 – Aug 2019 **Research Intern**, Microsoft Research – Redmond, WA
- Implemented novel self-supervised learning framework for low-resource language modeling
  - Research integrated into Azure Cognitive Services, reducing training data requirements by 60%
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## Projects

- Jan 2023 – present **FlashInfer**  
Open-source library for high-performance LLM inference kernels
  - Achieved 2.8x speedup over baseline attention implementations on A100 GPUs
  - Adopted by 3 major AI labs, 8,500+ GitHub stars, 200+ contributors
- Jan 2021 **NeuralPrune**  
Automated neural network pruning toolkit with differentiable masks
  - Reduced model size by 90% with less than 1% accuracy degradation on ImageNet
  - Featured in PyTorch ecosystem tools, 4,200+ GitHub stars
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## Publications

- July 2023 **Sparse Mixture-of-Experts at Scale: Efficient Routing for Trillion-Parameter Models**  
*John Doe, Sarah Williams, David Park*  
[10.1234/neurips.2023.1234](https://doi.org/10.1234/neurips.2023.1234) (NeurIPS 2023)
- Dec 2022 **Neural Architecture Search via Differentiable Pruning**  
*James Liu, John Doe*  
[10.1234/neurips.2022.5678](https://doi.org/10.1234/neurips.2022.5678) (NeurIPS 2022, Spotlight)
- July 2022 **Multi-Agent Reinforcement Learning with Emergent Communication**  
*Maria Garcia, John Doe, Tom Anderson*  
[10.1234/icml.2022.9012](https://doi.org/10.1234/icml.2022.9012) (ICML 2022)
- May 2021 **On-Device Model Compression via Learned Quantization**  
*John Doe, Kevin Wu*  
[10.1234/iclr.2021.3456](https://doi.org/10.1234/iclr.2021.3456) (ICLR 2021, Best Paper Award)
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## Selected Honors

- MIT Technology Review 35 Under 35 Innovators (2024)
- Forbes 30 Under 30 in Enterprise Technology (2024)
- ACM Doctoral Dissertation Award Honorable Mention (2023)
- Google PhD Fellowship in Machine Learning (2020 – 2023)
- Fulbright Scholarship for Graduate Studies (2018)

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## Skills

**Languages:** Python, C++, CUDA, Rust, Julia

**ML Frameworks:** PyTorch, JAX, TensorFlow, Triton, ONNX

**Infrastructure:** Kubernetes, Ray, distributed training, AWS, GCP

**Research Areas:** Neural architecture search, model compression, efficient inference, multi-agent RL

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## Patents

1. Adaptive Quantization for Neural Network Inference on Edge Devices (US Patent 11,234,567)
2. Dynamic Sparsity Patterns for Efficient Transformer Attention (US Patent 11,345,678)
3. Hardware-Aware Neural Architecture Search Method (US Patent 11,456,789)

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## Invited Talks

4. Scaling Laws for Efficient Inference – Stanford HAI Symposium (2024)
3. Building AI Infrastructure for the Next Decade – TechCrunch Disrupt (2024)
2. From Research to Production: Lessons in ML Systems – NeurIPS Workshop (2023)
1. Efficient Deep Learning: A Practitioner’s Perspective – Google Tech Talk (2022)