

# Konstantin Taletskiy, PhD

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PROFILE	Software Engineer and Technical Lead with 6+ years of experience developing interactive notebook environments, AI-enhanced developer tools, collaborative data science platforms, and scalable backend systems.		
TECHNICAL SKILLS	<i>Programming Languages:</i> Python, JavaScript/TypeScript, NodeJS, React, SQL, C++, CUDA <i>Cloud &amp; Infrastructure:</i> AWS, GCP, Kubernetes, Docker, GitHub Actions <i>AI &amp; Developer Tools:</i> LLM prompt engineering, JupyterLab extensions, CI/CD <i>Data Science Tools:</i> JupyterLab, Streamlit, Dash, Shiny		
EXPERIENCE	<i>Development Manager</i>	January 2025 - Present	
	Axle Informatics, Rockville, MD		
	<ul style="list-style-type: none"><li>Leading development of interactive AI-driven notebook environments and data portals for federal clients.</li><li>Overseeing 7 engineers cross-functional teams.</li></ul>		
	<i>Independent Consultant</i>	January 2024 - Present	
	<ul style="list-style-type: none"><li>Developed AI-powered copilot JupyterLab extension for a YC-backed startup, including prompt engineering, intelligent code completions, debugging agents, and chat interfaces.</li><li>Enhanced and supported JupyterLab extensions for a tech startup and set up CI/CD pipeline.</li></ul>		
	<i>Technical Lead</i>	January 2022 - Present	
	<i>Data Engineer / Jupyter Developer</i>	June 2021 - December 2021	
	Axle Informatics, Rockville, MD		
	<ul style="list-style-type: none"><li>Led the development of Notebooks Hub - a collaborative Data Science platform combining JupyterLab, RStudio, and VSCode IDEs and dashboarding tools such as Streamlit and Shiny.</li><li>Created and maintained custom JupyterLab extensions for Data Scientists.</li><li>Designed system architecture and managed team of 4 developers through implementation.</li><li>Created productivity tools used across the company, including an AI agent for generating monthly status reports from Slack/Jira/GitHub activity.</li><li>Mentored 15 trainees through collaborations with Georgia Tech, Cornell's Breakthrough AI Program, and NIH internships.</li></ul>		
	<i>Algorithms Developer</i>	August 2020 - May 2021	
De Novo Software, Pasadena, CA			
<ul style="list-style-type: none"><li>Worked in a regulated environment on an FDA-approved software medical device.</li><li>Contributed to developing a desktop application for analyzing flow cytometry data.</li></ul>			
<i>Full Stack Developer</i>	January 2019 - July 2020		
Axle Informatics, Rockville, MD			
<ul style="list-style-type: none"><li>Engineered high-performance cloud deployment with shared distributed storage for image processing pipelines used by Data Scientists at NIH/NCATS.</li><li>Contributed to JupyterLab extensions now widely used within developer communities (20k+ downloads monthly).</li><li>Designed a new framework for scheduling containerized analysis workflows on Kubernetes and HPC clusters.</li></ul>			
<i>Research Assistant</i>	2014 - 2018		
Center for Molecular Study of Condensed Soft Matter, Chicago, IL			
<ul style="list-style-type: none"><li>Created highly efficient GPU implementation of stochastic molecular model which is up to 300x faster than the previous version.</li><li>Automated pipeline for computational experiments, including job scheduling, data fitting, and analysis using Python and JupyterLab.</li></ul>			

**EDUCATION**

Illinois Institute of Technology, *Chicago, IL*  
PhD in Chemical Engineering/Computational Physics

December 2018

Novosibirsk State University, *Russia*  
MS & BS in Physics

June 2014