Alex Nodeland

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**Objective**

Experienced engineer and mathematician with a strong background in high-performance computing, AI system design, and startup development. Proven track record in leading cross-functional teams and managing strategic business partnerships. Passionate about transforming complex ideas into user-friendly solutions, optimizing business processes, and driving innovation and growth. Seeking to leverage my technical and leadership skills to bring innovative AI products to market and drive impactful AI solutions.

**Experience**

*Head of AI, Influize*

*Remote, NY | 2023 - 2024*

- Pioneered the AI engineering department, developing fully functional AI systems from conceptual models.

- Developed and fully implemented RAG-based LLM systems, enhancing the product's capabilities in generating dynamic responses based on retrieved data.

- Enhanced data model clarity by developing ontological models.

- Improved database security and efficiency by designing and implementing schema and backend infrastructure using Supabase Postgres.

- Boosted system security and functionality by building scalable AI pipelines with robust authentication.

- Optimized AI pipeline performance by implementing monitoring systems.

- Enhanced API throughput and reduced latency by architecting a high-performance, scalable API interface tailored for AI pipeline integrations.

- Optimized deployment workflows and enhanced system reliability by adopting Infrastructure as Code (IaC) practices using AWS CloudFormation and setting up a robust CI/CD pipeline with GitHub Actions.

- Ensured seamless platform integration by collaborating with external development teams.

- Streamlined development and coordination by directing project management with GitHub's self-management system.

- Boosted system responsiveness by optimizing database performance for higher scale and efficiency.

*Technical Strategy Consultant*

*Remote, NY | 2022 - Present*

- Enhanced operational flow by providing strategic guidance to a blockchain unicorn.

- Showcased AI potential by delivering a keynote talk on ChatGPT to CIOs and founders.

- Improved personal knowledge management systems by advising on AI and LLM utilization.

- Developed strategic plans to keep companies at the forefront of technology.

- Reduced costs and increased efficiency by facilitating transitions to AI-integrated systems.

- Advanced business processes by engaging in AI research and development.

- Identified AI solution opportunities through comprehensive market analysis.

- Supported startups in technology selection and strategic decision-making.

*Tech Lead, Musiio (acquired by SoundCloud)*

*Singapore | 2021 - 2022*

- Led a cross-functional team, fostering collaboration with the music team and external partners.

- Streamlined development workflows, managing scheduling and coordination with research and sales teams.

- Fostered continuous improvement by conducting operational analysis and organizing training sessions.

- Mentored team members, supporting career development and engagement.

- Ensured effective project management by collaborating with founders on development plans.

- Guided technical development, meeting customer and partner requirements.

- Managed GCP infrastructure, implementing Kubernetes & Istio and monitoring with Grafana & Prometheus.

- Revamped CI/CD process with Jenkins and Cypress, ensuring software quality.

- Introduced agile practices (Scrum) to streamline operations and increase productivity.

- Improved efficiency by implementing workflow automation and building a custom data ingestion pipeline.

*CEO & Co-Founder, Archanan*

*Singapore, SG | 2018 - 2022*

- Drove strategic direction by formulating business models and go-to-market strategies.

- Provided critical business insights by devising dynamic financial projections.

- Ensured seamless workflows by integrating management systems.

- Solidified financial foundation by securing early rounds of funding from government, VC, and angel investors.

- Expanded client base by attracting early customers, including Fortune 500 companies and national governments.

- Brought products to market by spearheading product development from conceptualization to launch.

- Fostered rapid growth by expanding the team from 3 to 15 in the first year.

- Strengthened partnerships by managing diplomatic relations with multiple levels of government.

- Promoted customer loyalty by establishing a strong brand identity.

- Secured beneficial terms by negotiating contracts and agreements with partners and suppliers.

- Mitigated business risks by implementing risk management strategies.

- Maintained transparency by steering investor relations and board communications.

- Challenged traditional norms by leveraging technical background to drive innovative solutions.

*Founder in Residence, Entrepreneur First*

*Singapore, SG | Jan 2018 - Jun 2018*

- Optimized market fit by refining early-stage ideas.

- Validated business concepts through comprehensive market research.

- Catalyzed product development by securing early LOIs and bringing MVPs to fruition.

- Drove business growth by formulating and implementing go-to-market strategies.

- Provided key insights through financial modeling to plan and predict business performance.

- Initiated a successful venture by co-founding Archanan.

- Secured seed capital by leading fundraising efforts.

- Broadened network and resources by forming strategic partnerships.

- Strengthened market positioning through business development initiatives.

*CTO, Chief Mathematician, Scala Computing*

*New York, NY | 2016 - 2017*

- Drove financial stability by securing seed capital from prominent VCs and angels.

- Elevated company status by gaining membership to the Grand Central Tech Accelerator.

- Fast-tracked product development by designing, architecting, and implementing MVPs.

- Ensured reliable software solutions by developing, testing, and integrating production code.

- Enhanced productivity and collaboration by establishing robust development processes.

- Improved software performance by leading a team of developers in delivering cloud middleware solutions.

- Advanced technological capabilities by directing algorithm development for complex problems.

- Ensured software quality by establishing strict QA standards.

- Minimized bugs through efficient code review practices.

- Enhanced client service offerings by cultivating strong client relationships.

*Artist in Residence, Center of Excellence in Wireless Information Technology*

*Stony Brook, NY | 2016 - 2017*

- Pioneered sound technology by designing, prototyping, and testing audio synthesizers.

- Contributed to novel audio technologies by engineering unique circuit designs.

- Generated creative content using academic research.

- Demystified complex concepts through collaboration with music technology industry professionals.

- Inspired creativity by leading seminars on the intersection of music and mathematics.

- Facilitated collaborative opportunities by networking with industry professionals.

*Researcher, SUNY Research Foundation*

*Stony Brook, NY | 2016 - 2017*

- Boosted research capabilities by spearheading a supercomputing project funded by the High Performance Computing Consortium of New York.

- Contributed to advancements in audio technology by conducting in-depth research on optimal wavelet bases for audio compression.

- Provided insights into spectrum trends by performing real-time signal analysis.

- Ensured up-to-date practices by liaising with other research teams.

- Maintained reliable data sources by organizing and maintaining project documentation.

*Assistant Product Engineer, Absara Audio*

*Port Jefferson, NY | 2014 - 2015*

- Enhanced product functionality by developing production-grade firmware for digital guitar pedals.

- Ensured regular product improvements by contributing to continuous integration and feature releases.

- Simplified customer usage by authoring technical documentation and user manuals.

- Improved product quality by optimizing processes to reduce software bugs.

- Integrated customer feedback into product development.

- Ensured software quality by implementing rigorous testing protocols.

*Technician, Absara Audio*

*Port Jefferson, NY | 2010 - 2014*

- Contributed to product manufacturing by assembling printed circuit boards for audio processing units.

- Guaranteed product reliability by conducting rigorous hardware testing.

- Ensured customer satisfaction by managing servicing of customer hardware.

- Maintained high service standards by leading technical customer service efforts.

- Optimized production processes through continuous improvement initiatives.

- Ensured quality standards by providing training to new staff.

- Contributed to customer service excellence by handling returns and repairs.

**Education**

*Doctor of Philosophy (Ph.D.), Computational Applied Mathematics*

*Stony Brook University, Stony Brook, NY | 2016 - (Incomplete)*

*Acquired Skills*: Advanced computational techniques, complex problem-solving, project management, data-driven decision making

*Relevant coursework*: Numerical Analysis, Numerical Partial Differential Equations, Numerical Linear Algebra, Data Analysis, Applied Real Analysis, Applied Complex Analysis, Parallel Computing.

- Engaged in preliminary research but transitioned to entrepreneurial roles prior to advancing to candidacy.

- Applied research experience at the Center of Excellence in Wireless Information Technology (CEWIT) and SUNY Research Foundation, focusing on audio compression and signal analysis.

*Bachelor’s Degree (BS), Applied Mathematics and Statistics*

*Stony Brook University, Stony Brook, NY | 2013 - 2015*

*Acquired Skills*: Statistical modeling, data analysis, problem-solving

*Relevant coursework*: Applied Real and Fourier Analysis, Computation Modeling of Physiological Systems, Discrete Mathematics, Modern Mathematics, Linear Algebra, Operations Research: Deterministic Models, Survey of Probability and Statistics, Research Practices in Biomedical Engineering, Modern Physics, Molecular and Organic Chemistry.

- Member of the University Scholars Program.

**Certifications**

- AWS Business Professional, Amazon Web Services, 2018

- AWS TCO and Cloud Economics, Amazon Web Services, 2018

- Responsible Conduct of Research in Engineering, CITI Program, 2017