

AJAY KAPUR

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Executive, Entrepreneur, Researcher, Creative

Experienced executive leader and team builder with a demonstrated history of developing products and services using Artificial Intelligence, building efficient teams, and driving a strategy towards financial success in start-ups. Strong interdisciplinary professional with a Doctor of Philosophy (Ph.D.) focused in Computer Science, Electrical Engineering, Mechanical Engineering, Psychology. & Music from University of Victoria. Earned a Bachelors of Engineering in Computer Science from Princeton University.

12 years executive experience as A CEO first at KarmetiK, LLC (a service based company) and then Kadenze, Inc. (a product based company) implementing Artificial Intelligence as a core feature to cutting edge technologies.

Entrepreneurship & Professional Experience

Kadenze, Inc. Valencia, CA March 2013 - March 2018

CEO, President & Co-Founder - Education Technology Products, Social Learning powered by Artificial Intelligence, SAAS based Virtual Learning Environment, Instructional Design & Online Education Business Development, Digital Learning for Arts and Creative Technology.

- **Ideation:** Setup company from scratch, brought together co-founding team, setup board of directors, setup up an office, hired 40+ employees, wrote 5 patents and brought company from zero to self-sustainable. Raised over 8 Million dollars as equity based investments.
- **Creating and Executing Strategy:** Spearheaded design of 2 products: One a B2B learning management system and a second a B2C learning platform bringing together over 40 of the top Universities in the world including Stanford University, Princeton University and University College of London. Structured product strategy and built R&D department to bring in Artificial Intelligence as key element into the product pipeline.
- **Building Management Teams:** Leverage analytical skills, P&L leadership and structured communication to build top-tier teams that dependably meet or exceed objectives

KarmetiK LLC Valencia, CA September 2006 - March 2013

CEO & Founder - Consulting, Artificial Intelligence and Machine Learning, Mechatronics, Robotic Design, Digital Signal Processing, Circuit Board Design, Interactive Entertainment Systems, Customized Software Solutions, Education Technology.

- **Client First Service:** Consulted with Enterprise companies like Harman International, IBM, Readers Digest, Porsche and the Walt Disney Company as well as small startups to integrate cutting edge technology into there business products and services. Learned to work in a "Client-First" environment and assembled the appropriate team required to accomplish the task at hand.

Additional Experience

California Institute of the Arts Valencia, CA Sept 2007 - Present

Associate Dean for Research and Development in Digital Arts, Office of the President

Professor/Director of Music Technology: Interaction, Intelligence and Design in School of Music.

Victoria University of Wellington Wellington, New Zealand, July 2009 - August 2015

Senior Lecturer of Sonic Art Engineering in the Engineering and Computer Science Department

Massey University Wellington, New Zealand July 2008 - Aug 2008

Adjunct Lecturer in Multimedia Engineering

Simon Fraser University Vancouver, Canada July 2007 - Dec 2007

Post Doctoral Fellow in Interactive Machine Learning for Music



Education

University of Victoria, Victoria, BC, Canada

Doctor of Philosophy in Interdisciplinary Studies combining Computer Science, Electrical and Computer Engineering, Mechanical Engineering, Music & Psychology, November 2007

- Ord and Linda Anderson Interdisciplinary Fellowship. (GPA:A+)
- Dissertation: Digitizing North Indian Performance: Extension and Preservation Using Multimodal Sensor Systems, Machine Learning & Robotics.

Princeton University, Princeton, NJ, USA

Bachelor of Science and Engineering in Computer Science, June 2002

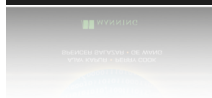
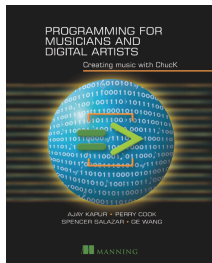
- Graduated with Honors in Computer Science (CS GPA: A-)
- Elected to the Society of Sigma Xi for excellence in research.
- Senior Thesis: Invented the Electronic Tabla MIDI Controller. Received the Calvin Dodd MacCracken Senior Thesis/Project Award.

Additional Qualifications

Inventions and Innovation: Published over 150 technical papers and presented keynotes and seminars across the world on artificial intelligence, human computer interface, robotics, education technology, and creative applications of cutting-edge technology, at IEEE, ACM, and other tier one peer-reviewed conferences and journals.

Research Grants: Raised over \$500,000 USD for Research Innovation in areas of Artificial Intelligence, Human Computer Interaction, Mechatronics and Advanced Signal Processing from supporters including National Science Foundation, Google Research, National Sciences and Engineering Research Council of Canada.

Book Author: Wrote first book called "Digitizing North Indian Music", discussing how sensors, machine learning and robotics are used to extend and preserve traditional techniques of Indian Classical music. Latest book "Introduction to Programming for Musicians and Digital Artists" is a textbook for teaching novices computer science.



Patents

Feature Extraction and Machine Learning for Evaluation of Image-Or Video-Type, Media-Rich Coursework *Ajay Kapur, Perry Raymond Cook, Jordan Hochenbaum, Colin Bennett Honigman, Owen Skipper Vallis, Chad A. Wagner, Eric Christopher Heep*, July 31, 2013. USA Patent Number: US20150066820A1

Feature Extraction and Machine Learning for Evaluation of Audio-Type, Media-Rich Coursework *Ajay Kapur, Perry Raymond Cook, Jordan Hochenbaum, Owen Skipper Vallis, Chad A. Wagner, Eric Christopher Heep*. July 31, 2013. USA Patent Number: US20150039541A1

Self Organizing Maps (SOMS) for Organizing, Categorizing, Browsing and/or Grading Large Collections of Assignments for Massive Online Education Systems *Jordan N. Hochenbaum, Ajay Kapur, Owen S. Vallis, Perry R. Cook, Colin Honigman, Chad Wagner*. October 25, 2013. USA Patent Number: US20150147728A1

Multimedia educational content delivery with identity authentication and related compensation model *Perry Raymond Cook, Ajay Kapur, Owen S. Vallis, Jordan N. Hochenbaum*. March 14, 2014. USA Patent Number: US20150262496A1

User Identity Authentication Techniques for On-Line Content or Access *Perry Raymond Cook, Ajay Kapur, Owen S. Vallis, Jordan N. Hochenbaum*. May 19, 2014. USA Patent Number: US20150379253A1

