

# AJAY KAPUR

## address

24911 Ironwood Drive  
Valencia, CA 91355

tel (203) 807-2529  
email [ajay@karmetik.com](mailto:ajay@karmetik.com)  
web [www.ajaykapur.com](http://www.ajaykapur.com)

LinkedIn /Ajay-Kapur  
Twitter @Ajay\_\_Kapur  
Instagram @karmetik  
Facebook /digitalraja

## Executive, Entrepreneur, Researcher, Educator, Creative

Experienced executive leader and team builder with a demonstrated history of developing innovative products and services to meet niche market needs. Twelve years of experience in building client relationships, establishing state of the art processes, managing skilled and highly motivated professionals while driving strategies and cutting edge technologies towards financial success in start-ups. A researcher and tenured faculty member with almost 15 years of experience in Academics including a combination of senior positions in the President and Provost offices. An accomplished professional with an interdisciplinary Ph.D. in the fields of Computer Science, Electrical Engineering, Mechanical Engineering, Psychology and 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.

## Entrepreneurship & Professional Experience

**Nirveda Cognition, Inc.** Glendale, CA July 2018 - October 2020

**President and Co-Founder** - Led the development of Intelligent Process Automation powered by artificial intelligence (AI) and Cognitive Computing, SaaS based Document Intelligence product that saved companies 10x on back office operations

- **Startup Leadership:** Leveraged network of talent to bring top AI engineers and business development teams together, patented technology & raised over \$3 Million in seed funding from Venture Capital Investors. Rolled out products with a handful of marquee clients including KPMG.
- **Compliance and Change Management:** Led AICPA SOC 2 compliance efforts to bring company to enterprise ready with security; established financial processes for GAAP compliance. Set up human resource operations and managed a remote team in India to drive cost effective resource management.
- **Innovation:** Led efforts to build cutting edge AI algorithms including Natural Language Processing and transfer learning with one-of-a-kind user experience platform that integrates into client workflow.

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

**CEO, President & Co-Founder** - Led the development of an education platform which facilitated delivery of affordable online education in the field of creative arts by top rated professors to students around the world. This involved 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.

- **Startup Leadership:** Formulated the mission, established the co-founding team and raised \$8 million from investors. Set-up board of directors, and documented the long and short term

product marketing and financial strategies. Partnered with over 40 Universities to provide classes to millions of students in over 150 countries. This was a win-win not only for the students but also the Universities because they could leverage their resources for additional revenue. Managed the Profit and Loss Statement to make the company self sustainable.

- **Compliance and Change Management:** Established processes to comply with regulatory requirements in the areas of engineering, accounting, security and human resources. Passed independent audits with no significant variances. Overcame the inertia to change from class-room to online education, and created a niche for online education in the field of creative arts.
- **Innovation:** Spearheaded design of two 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. Established R&D department to bring artificial intelligence as a key element into the product pipeline. Wrote five patents for these innovative developments.

#### **KarmetiK LLC Valencia, CA September 2006 - Present**

**CEO & Founder** - Provide consulting services utilizing artificial intelligence and Machine Learning, Mechatronics, Robotic Design, Digital Signal Processing, Circuit Board Design, Interactive Entertainment Systems, Customized Software Solutions, Education Technology. Consulted with Enterprise companies like Harman International, NBC Universal, Porsche and the Walt Disney Company to integrate cutting edge technology into their business products and services.

**Startup Leadership:** Established exceptional base of experienced talent to meet customer requirements on a project by project basis. Ensure that solutions are executed on-time and in-budget. Target industries are themed-entertainment, music, theatre, video-gaming, VR/AR, interactive media, museums, and pre/post-production film.

**Compliance and Change Management:** Work in a "Client-First" environment and assemble the appropriate team required to accomplish the task at hand.

**Innovation:** Direct the creation of cutting edge solutions for clients around the world. Hire engineers who also pride themselves as being artists, which translates to a development aesthetic that favors flexible design and beautiful solutions. Excel at bringing culture into the digital domain.

#### **Academic Experience (Higher Education Leadership)**

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

Associate Provost for Creative Technologies

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

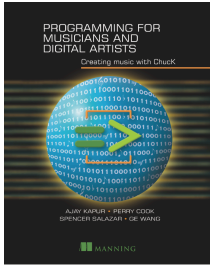
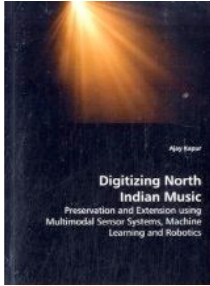
Senior Lecturer of Sonic Art Engineering in the Engineering and Computer Science Department

##### **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



## Additional Qualifications

**Inventions and Innovation:** Published close to 200 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