Kevin Park

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kev-pk

EDUCATION

Princeton University 2023 - 2027
G.P.A. of 3.59 Princeton, NJ
B.S.E. in Mechanical & Aerospace Engineering; Intended Minors in Statistics & Machine Learning, Robotics
- Relevant coursework: PHY105, PHY106, COS126, MAE305, MAE306, MAE221, MAE222, MAE223, MAE321, MAE325

Ridgewood High School (RHS) 2019 - 2023
G.P.A. of 4.502 (weighted), Valedictorian, AP Scholar with Honor, 2021 National Merit Letter of Commendation Recipient Ridgewood, NJ

PROFESSIONAL EXPERIENCE

Princeton Robotics, PRPL Lab 2025 - Present
Robotics-focused reinforcement learning researcher under Dr. Tom Silver
Projects: *Soft-body motion/action planning*

Princeton Neuroscience Institute 2024 - Present
Reinforcement learning researcher in partnership with AGI Reading Group under Dr. Sebastian Seung
- Researched and implemented various RL techniques (Actor-Critic, PPO, imitation learning, deep-Q networks, policy gradient)
- Implemented algorithms for synthetic dataset collection and validation
- Developed a parallelized pretraining and training algorithm for an agent that automatically proofreads neuron segmentation in Neuroglancer via Chrome interaction

La Fondazione Giorgio Cini, ARCHiVe 2024 - 2024
Machine learning and full-stack desktop app development intern
- Independently developed the frontend and backend for a QT-based desktop app utilizing deep-learning techniques (SegmentAnything), improving workplace efficiency by ~600%
- Investigated and tested deep-learning-based 3D modeling techniques (Gaussian splatting)

Bergen Community College, Department of Chemistry 2022 - 2023
Research intern under Dr. Ara N. Kahyaoglu, Physical Sciences Department Chair
Projects: *Antimicrobial and Synergistic Properties of Nanoparticles, Building Lewis Dot Structures of Binary Compounds/Ions, Photovoltaics Research*
- Successfully conducted research as part of a diverse team of chemistry undergraduate researchers. Involved frequent problem solving, daily interactions with faculty advisor, and communication

AWARDS

NJ STEAM Tank™ Challenge 2021 - 2022
Project lead for ICE Pack team
- Winner of the 2022 NJ STEAM Tank™ Challenge and $2500 in project funding
- Winner of the 2022 Societal, Social, and Emotional Impact Award; Justice, Equity, Diversity & Inclusion Award; Subject Matter Expert Award; Creativity & Exemplar Integration of the Arts Award
- Finalist in the 2021 NJ STEAM Tank™ Challenge and winner of the 2021 Innovation Award

EXTRACURRICULARS

Princeton Society of Asian Scientists and Engineers 2024 - Present
Co-treasurer
- Acquired ~$10,000 in funding from engineering departments and student government to help undergraduates attend national SASE conference in Boston

Princeton Racing Electric Club 2024- Present
MK2BC Engineer
- *Engineer working on PRE's MKB2C car, preparing it to clear all competition guidelines, design custom PCB electronics*

Natural Language Processing Reading Group 2024 - Present
Study various papers from industry & academia related to natural language processing

Advanced General Intelligence Reading Group 2024 - Present
Study various papers from industry & academia related to world models, agents, benchmarking, etc. under guidance from Dr. Sebastian Seung

Patent Applicant Present
Pending patent applicant for an induced hypothermia cooling blanket based on gaseous CO_2 circulation technology

SKILLS

Programming Languages: Python (Qt, PyTorch), Java, JavaScript, C++, HTML/CSS
Software: Google Product Suite, Excel, Miro, Blender, AutoCAD, KiCad, Mathematica, Arduino, Figma, Inkscape, Krita, Filmora X, NX, Altium, Creo, Matlab
Certifications: CPR, First Aid, EDX Machine Learning, Coursera Python (Data structures, databases)