Konstantin Howard

1427 Woodbine Street, Alexandria, Virginia 22302
Cell: (571)-699-4885 ● Email: kostia.howard@gmail.com

EDUCATION

Princeton University, Princeton, NJ   June 2024
- Bachelor of Science in Engineering in Computer Science – Cumulative GPA: 3.836
- Pursuing certificates in Russian, Eastern European, and Eurasian Studies (REEES) and Jazz Studies
- Relevant Courses: Computer Science 226 Algorithms and Data Structures, COS 217 Intro to Programming Systems, COS 324 Intro to Machine Learning, fourth-year Russian, COS 454 Probabilistic Models of Cognition, COS 316 System Design

Derzhavin Institute, St. Petersburg, Russia   Summer 2021
- Intensive second-year Russian virtual summer language course through Princeton in St. Petersburg program
- Wintersession virtual minicourse (January 2022)

The Hotchkiss School, Lakeville, CT   June 2020
- Cum Laude – Cumulative GPA: 10.7 (A- average on an unweighted 12-point scale)
- Relevant courses: AP Calculus, AP Physics C, Discrete Mathematics, Calculus-Based Statistics, AP Computer Science

TC Williams High School, Alexandria, VA   September 2015-June 2017
- Cumulative GPA: 4.27 (A+ average on a weighted 4-point scale)

SKILLS & INTERESTS

- **Skills:** UML design, MagicDraw, technical literacy, Microsoft Office, Google Drive, Roth IRA Portfolio management, manufacturing assembly; **Programming:** Java, C, C++, Python, Go, ARMv8, Bash
- **Language:** Advanced Russian
- **Interests:** Jazz saxophone, space exploration, distance running, politics and international affairs, Classics

EXPERIENCE

EMTech Space, Athens, Greece *Design and Development Intern*   June-July 2022
- Learned operational simulator architecture and software design patterns by studying ESA standards and reverse-engineering UML models from C++ source code for REFASIM (generic spacecraft test build) Electric Pulse System
- Developed simulator for Power Control and Distribution Unit subsystem of undisclosed spacecraft for testing: extracted software requirements from hardware document, designed system of models and interfaces using MagicDraw (UML), implemented design in C++, performed assembly tests
- Authored Software Requirements Specification and technical report on my work, presenting to supervisors and CEO

Princeton Computer Science Department, *Grader*   September 2022-present
- Grade coding assignments and exams for COS126 Intro to Computer Science

Mendel Music Library, *Circulation Assistant*   September 2021-May 2022
- Ran circulation desk, assisted patrons, organized collection according to LC call numbers, performed independent projects

Briartek Incorporated, *Assembly Technician*   June 2019-December 2020
- Manufactured man-overboard beacons, receivers, and direction finders contracting with US Navy and maritime industry
- Technical work: Soldered, programmed, and tuned circuit boards; over-molded antennas and beacons
- Lead independent production projects (Battery Back Ups)

Great Harvest Bread Company, *Customer Service*   June 2016-December 2018
- Delegated tasks and trained new employees in sales, prep work, cleaning, opening and closing tasks

Alexandria Soccer Association, *Youth Soccer Referee*   Spring 2013-Fall 2015

LEADERSHIP & ACTIVITIES

Princeton University   Fall 2020-present
- Alto Saxophone in small group ensemble and Creative Large Ensemble, Princeton Music Department (2020-23)
- Volunteer saxophone instructor with Trenton Arts at Princeton
- Panelist - presented two research papers at REEES Northeast Network 2022 Conference at Yale

Boy Scouts of America, Troop 129   Spring 2013-Winter 2017
- Earned the highest rank of Eagle Scout, serving in various leadership positions including as Crew Leader at Philmont
- Planned, organized, and led community service projects, camping trips, etc.

The Hotchkiss School   Fall 2017-Spring 2020
- Maria Bissell Hotchkiss Scholarship Recipient
- Faculty Prize (2020) – For seniors distinguished by their humility, kind-spiritedness and strength of character
- Varsity Cross Country (5 years), Captain (2019)
- Varsity Track and Field (3 years), Captain (2020)
- Lead saxophone in jazz band, frequently performing at school events
- Addressed/lobbied board of trustees to expand financial aid resources