Perrin A. Jones
Designer | Engineer | Advocate

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EDUCATION

Columbia University, B.S. Computer Science (UI/UX Track), Minor in Mechanical Engineering & Sound Arts   **New York, NY**
Honors and Awards: C.P. Davis Scholars Distinction (Top 5% Admitted Students), Dean's List   2016– 2020
Relevant Coursework: Honors Computer Science, Adv. Programming, User Interface Design, Data Structure & Algorithms
Intro to Human Centered Design, Evolutionary Computation/Design Automation

Rochester Institute of Technology, 4.0, Dual-Enrollment   **Rochester, NY**
Relevant Coursework: Software Eng., CAD, Electronics, Computer Integrated Manufacturing, Robotics, Architectural Design   2012-2016

WORK EXPERIENCE

Columbia University, Creative Machines Lab, Research Assistant   **New York, NY**
- Program in Arduino swarm-like cellular robots to work together to perform more complex tasks   May 2017-Present
- Lead the mechanical aspect of the project, working in CAD to develop comprehensive designs and simulations
- Prototype multiple versions of the robots using 3D printing, laser cutting, vacuum forming, and other tools

Columbia Engineering, Makerspace, Superuser | Designer   **New York, NY**
- Manage the Makerspace during office hours, overseeing students' use of tools and machinery   Sept 2016-Present
- Teach local and university students how to program Arduino, 3D print, laser cut, and use tools in the space
- Outreach to get local underrepresented minorities involved in computer science, design, and engineering

Sound Designer & Engineer, Freelance   Upstate NY | **New York, NY**
- Design audio clips and mix live events for clients including multi-Grammy nominated artists, Columbia   Sept 2012-Present
  graduations & commencement, and over 25 professional theatre productions

Summer Enhancement Fellowship, Independent Researcher   **Sydney, AU | Melbourne, AU**
- Demonstrated the feasibility of acoustic quantum computing with MATLAB & python software simulations   June 2017-Sept 2017

Valogix LLC, Automated Software Engineer   **Saratoga Springs, NY**
- Spearheaded the automation sector of the company, expanding the department to three during my time   May 2014-Sept 2016
- Developed software in Python & Java to automate SQL server and new web development testing, software still in use

LEADERSHIP EXPERIENCE

Homeless College Access Project, Founder | Executive Director   **New York, NY | Sydney, AU | London, UK**
- Established an international non-profit to aid homeless students apply to and access post-secondary education   May 2017-Present
- Manage a board of directors to implement in-shelter outreach and fundraise for a scholarship fund

Natangué-Sénégal, International Non-Profit USA Branch, Assistant Vice President, Engineering & Design   **Mbour, Senegal**
- Oversee technical engineering plans for new sustainable infrastructure to aid homeless in Senegal   Apr 2017-Present
- Manage a team of three to CAD housing and furniture solutions using recycled waste materials
- Lead the engineering and design team in implementing on-site initiatives through all phases of development

Future Leaders Foundation, Future Global Leaders Fellow   **New York, NY**
- International fellowship awarded to the world's top 22 most talented students & rising leaders from all fields   Mar 2017-Present
- Paired with a professional, life-long mentor and integrated into the Fortis Society, a global elite network

Columbia University Food Bank, Lead Web Designer | Volunteer   **New York, NY**
- Initiated and lead a web team of five to develop the Food Band's first website in HTML/CSS   Jan 2017-Present

National Outdoors Leadership School, Participant   **Lander, WY**
- Developed leadership, teamwork, and risk management skills during a 20-day 75-mile hiking expedition   August 2017

Educating Young Engineers, Project Engineer | Educator | Web Designer   **Saratoga Springs, NY**
- Designed STEM challenges for K-5 weekend programs and taught students to code robots in RobotC   Sept 2014-May 2016

SKILLS & INTERESTS

Technology: Java, Python, JavaScript, C, C++, Arduino, HTML/CSS, SQL, MATLAB, Unix, Solidworks, Inventor, Photoshop
Projects: Solar tracking umbrella software, MIDI controller design/programming, quantum computing coding
Activities: Multicultural Recruitment Committee, Application Development Initiative, Columbia iQ (Queers in STEM)
Interests: Bowtie collecting, prototyping designs, latte art, first gen/low-income advocacy, algorithmic music composition