**PUBLIC INTEREST TECH JOB SKILLS**

Created by students and faculty at the Haas Center for Public Service at Stanford University, this draft taxonomy is for job-seekers, career counselors and hiring organizations. Offer feedback and join the conversation at [pitcases.org/jobskills](http://pitcases.org/jobskills).

### General Knowledge/Previous Experience

#### Education and Training

<table>
<thead>
<tr>
<th>Academic Fields of Study</th>
<th>Knowledge and skills (regardless of educational field)</th>
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<tbody>
<tr>
<td>AI</td>
<td>Understanding of the motivations for and challenges of public interest technology</td>
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<tr>
<td>Art</td>
<td>Environmental Sustainability</td>
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<tr>
<td>Child Development/Education</td>
<td>Assessment of new and emerging technologies for social impact</td>
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<td>Communications</td>
<td>Effective engagement with users</td>
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<td>Computer Science</td>
<td>Responsible deployment of technologies</td>
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<tr>
<td>Cybersecurity</td>
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<tr>
<td>Data Management/Analytics/Science/Visualization Human-Centered Design</td>
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<td>Environmental Science</td>
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<td>Human Rights</td>
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<td>Humanities</td>
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<tr>
<td>Law</td>
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<tr>
<td>Philosophy/Ethics</td>
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<td>Privacy</td>
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<td>Public Policy</td>
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<tr>
<td>Science</td>
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<tr>
<td>Social Sciences</td>
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<tr>
<td>Software Engineering</td>
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<tr>
<td>Technology Strategy and Policy</td>
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<tr>
<td>Urban Studies</td>
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</tbody>
</table>

#### Certifications

**Environmental Sustainability**
- CERES: Certification of Environmental Standards
- ESG: Environmental Social Governance
- FSA: Fundamentals of Sustainability Accounting
- GRI Standards: Global Reporting Initiative
- TCFD: Task Force on Climate-related Financial Disclosures

**Blockchain/Cybersecurity**
- CAP: Certified Authorization Professional
- CCSP: Certified Cloud Security Professional

**Healthcare**
- HCISPP: HealthCare Information Security and Privacy Practitioner

**Project Management**
- Agile process / framework

**Skills**
- Cybersecurity
- Data and Algorithms
- Data Science
- GIS
- IT Support
- Project Management
- Programming Languages
- Cloud/Libraries/APIs
- Protocols/Frameworks/Platforms
- Applications
- Software Development
- Statistics and Data Science in Social Sciences
Personal Qualities and Passions

Soft Skills

- Adaptability
- Accountability
- Building relationships
- Care
- Communication (Oral/Written)
- Collaboration
- Comfort with ambiguity
- Commitment to social justice
- Compassion
- Content creation
- Creativity
- Curiosity
- Detail-oriented
- Determination
- Empathy
- Enthusiasm
- Entrepreneurship
- Flexibility
- Focused
- Grit
- Growth Mindset
- Humility
- Initiative
- Interest in social good
- Independence
- Leadership
- Multitasking
- Outreach
- Ownership
- Passion
- Perseverance
- Principled
- Public interest
- Public speaking
- Reliability
- Respectful
- Self-starter
- Stewardship
- Time management
- Transparency
- Visionary
- Willingness to learn

PIT Job Areas

Accessible/Inclusive Design
- Equitable use
- Flexibility in use
- Physical effort required
- Perceptible information

Cities/Urban Issues
- Housing/Homelessness
- Infrastructure
- Public Safety, Law Enforcement
- Transportation
- Business Recovery
- Hunger/Food Security

Civic Engagement
- Engagement
- Direct service
- Community collaboration
- Fundraising and philanthropy
- Political engagement

Connected Communities
- Public/private partnerships
- Equitable transit/transportation
- Neighborhood watch

Cybersecurity
- Algorithmic fairness
- Critical infrastructure
- Cryptocurrency policy
- Internet of Things
- Privacy
- National security

Democracy/Elections/Electoral Services
- Activism
- Community Organizing
- Election security

Education
- Academia/Research
- EdTech
- Education Nonprofits
- Higher Education
- K-12 Education
- Education Equity

Environmental Sustainability
- Carbon Sequestration/Clean Energy
- Climate, Climate Policy
- Conservation
- Green Building
- Environmental Justice
- Land Management
- Water Management

Ethics
- Algorithmic Bias
- Digital (Access) Equity
- Transparency
- Open Data
- Data Standardization
- Data Access
- Fairness in hiring

Food & Agriculture
- Autonomous farming
- Weather forecasting
- Smart greenhouses
- Biotechnology/seed science
- Online marketplaces
- Supply chain automation

Government and Government Technology
- Election integrity
- GovTech/Civic Tech
- Urban Policy
- Tech Policy
- Economic Policy

Healthcare
- Childcare
- Mental Health Services
- Pharmaceuticals
- Public Health
- Telemedicine

Identity
- Algorithmic bias
- Inclusion
- Perspectives of historically-marginalized groups
- Online safety

Information Integrity
- Aggregating/anonymizing data
- Data Ethics
- Data Privacy
- Data Security

Law/Legal Services
- Bias
- Criminal Justice
- Legal Aid
- Policing
- Prison Reform
- Victim Support
- Fraud Prevention

Media/Journalism
- Data Journalism
- Social Media Integrity
- Social Media Analytics
- Media Representation (Parent Media, Black Media, Latino Media, and Youth Media)

Privacy
- Aggregating/anonymizing data
- Digital security
- Surveillance
- Health information
- Facial recognition
- Geolocation
- IoT data
- Financial transactions

Racial Justice
- Black-owned Businesses
- Disability Services
- Immigration/Refugee Services
- LGBTQ+, LGBTQ youth
- Gender equality
- Racial Justice
- Indigenous/Tribal communities
- Economic mobility

Social Justice
- Equal rights
- Equal opportunity
- Equal treatment