

Jonathan Pool
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CAPABILITIES

- Role: **full-stack digital accessibility engineering**
- Duties: planning, cost-benefit estimation, coordination, design, tooling, coding, linting, testing, documentation, presentations, training, maintenance

RECENT WORK HISTORY

Self-employed web-accessibility R&D consultant

Seattle, Washington

February 2018 - present

- Performed **website and document accessibility inspections** with reference to WCAG 2.1 and WAI-ARIA with aXe, WAVE, Siteimprove, WCAG Accessibility Audit Developer UI, Safari a11y Tools, Acrobat Pro DC, and VoiceOver
- Published information and advice on accessibility issues: <https://geezer.pro>
- Developed and maintained web applications with nginx, PM2, PostgreSQL, SendGrid Web API, and Twilio Programmable Voice API on Ubuntu Linux OVH VPS
- Received Adobe-conducted training in “Advanced PDF Accessibility”
- Invited as speaker to Seattle Area Accessibility & Universal Design

Learners Guild

Full-stack web-development and accessibility apprentice

Oakland, California

May 2017 - February 2018

- Developed **accessible and responsive front-end, back-end, and full-stack web applications**, SPAs, and APIs coded in HTML5, CSS3, JavaScript (ES2015), and SQL, using Node.js, NPM, Express, pg, pg-promise, bcrypt, solr, PostgreSQL, Mongoose/MongoDB, JQuery, Cheerio, Bootstrap, EJS, Pug, Materialize, ESLint, mocha, chai, Selenium Webdriver, Chrome Developer Tools, and Heroku
- Became ESLint contributor #25: <https://github.com/eslint/eslint/graphs/contributors>
- Contributed 200+ times to MDN Web Docs: <https://developer.mozilla.org/en-US/dashboards/revisions?user=JonathanPool>
- Managed versions, collaboration, and workflows with git, Github, Slack, and Trello

The Long Now Foundation

Project director and web and database developer

San Francisco, California

January 2012 - December 2016

- Managed PanLex project and developed 3.1-billion-translation database and UIs supporting **access to digital content across thousands of languages**, using Perl, PostgreSQL, PL/pgSQL, DBI, MojoDOM, OCR tools, iconv, and ISO 639-3: <https://panlex.org/>
- Improve web UIs with authentication and authorization to access and modify database
- Tuned and tested indirect-translation algorithms
- Developed SEO web interface to database
- Developed NLTK corpus in 2000 languages: <https://dev.panlex.org/panlex-swadesh-corpus/>
- Contributed to Unicode Common Locale Data Repository
- Recruited and managed 5 web developers and linguists and 40 summer interns
- Installed, configured, and managed servers under Ubuntu Linux on AWS EC2 and dedicated OVH hosts
- Wrote project developer documentation with WordPress: <https://dev.panlex.org>
- Collaborated with git, svn, Github, Gitlab, Bitbucket, SourceForge, Slack, Asana, Wrike, and Egnyte
- Published and presented papers on panlingual lexical translation technology

Utilika Foundation

CEO and web and database developer

Seattle, Washington

June 2004 - December 2011

- Performed database and web development and strategic management of PanLex project supporting **access to digital content across language barriers**
- Converted SQL Server database to PostgreSQL
- Developed web UIs with authentication and authorization to access and modify database
- Installed, configured, and managed web, database, and mail servers with Red Hat Enterprise Linux
- Managed research partnership with Turing Center, University of Washington
- Published and presented research papers on lemmatic communication, syntactic ambiguity, and controlled languages
- Recruited and trained volunteers and 10 interns
- Took 50 quarter credits of undergraduate and graduate computer science and linguistics courses at University of Washington with GPA 3.97

PROFESSIONAL AFFILIATIONS

- International Association of Accessibility Professionals, member
- Puget Sound Special Interest Group in Computer-Human Interaction, member
- Seattle Area Accessibility & Universal Design, member
- Esperantic Studies Foundation Advisory Board, member