

# Cameron Tenny

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Accomplished engineer (12 years) and manager (2 years) with experience in building teams and leading projects. Expertise in performance engineering, optimizing compilers, and developer tools. Passionate about leading and aligning efforts across teams to achieve performance and developer velocity wins.

## Experience

- **Igalia - Senior Staff Software Engineer** **12/20 - 12/23**
  - **JavaScript & Web Standards Committees** - Authored and led JavaScript and IETF standards proposals through all stages of committee. Built consensus between browser vendors (Google, Apple, Microsoft, Mozilla), developed browser implementations and specification tests. Current co-maintainer of test262, the official JavaScript implementation test suite.
- **Semgrep - Director, Static Analysis** **01/18 - 12/19**
  - **Static Analysis Team** - Hired and managed senior engineering team with six reports, averaging over 15 years experience. Led development of static code analyzers, including creation of the main Semgrep product. Team exceeded runtime, memory, size, scaling, and source coverage KPIs in close collaboration with infrastructure and product teams.
  - **Research Partnerships** - Delivered program analysis products to customer research groups. Advised projects, contributed to publications, drove product development from feedback.
- **cjt codes - Freelance Consultant** **07/17 - 04/18 and 12/19 - 08/20**
  - **Software Architect** - Planned complex client build system migrations. Wrote architecture reviews for client program analysis products and implementations.
  - **Hiring Consultant** - Assisted companies ranging in size from tens to hundreds of employees with sourcing, interviewing, and evaluating senior candidates.
- **Facebook - Software Engineer** **02/15 - 06/17**
  - **Python Thrift Compiler** - Formed and led cross-functional team of four senior engineers to design and deploy new zero-copy Thrift RPC compiler for Python 3. Enabled significant memory and CPU savings for all Facebook Python services.
  - **Instagram Site Efficiency** - Tech lead for new automated production performance tracing and analysis tool. Collaborated with data science and product teams to ensure precise and accurate results. Successfully deployed, now used before all engineering feature launches.
  - **Build Infrastructure** - Maintained distributed compilers and build systems for JavaScript. Significant oncall responsibility. Led response team for eight figure per day outage. Reduced local build time from tens of minutes to tens of seconds for thousands of engineers. Optimized static resource serving, reducing memory pressure by several percent on every frontend server.
- **Internships - Microsoft, MIT, VMWare, Heartland Robotics, Microsoft** **2008 - 2013**

## Publications & Talks

- **Beyond the Paper: End-to-End Program Analysis** **Curry On 2019**
- **Small World with High Risks: A Study of Security Threats in the npm Ecosystem**  
Zimmermann, Staicu, Tenny, Pradel **USENIX Security 2019**

## Education

- **Massachusetts Institute of Technology - Computer Science (M.Eng, incomplete) 2014**
  - Lead teaching assistant for compilers (undergrad) & operating systems (grad), 2012 - 2014
  - Thesis: Programming language with first class side effects
- **Massachusetts Institute of Technology - Computer Science (B.S.) - 4.6/5.0** **2013**