

DOUG ILIJEV

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1234 Somewhere Place
Nowhere, WA 55555

EDUCATION **University of Texas at Austin** **Cumulative GPA: 3.80** May 2015
– M.S. Computer Science Graduate GPA: 3.52
– B.S. Computer Science Major GPA: 3.85

University of Texas at Austin **Cumulative GPA: 3.89** Dec 2013
– B.S. Computer Engineering, Honors Major GPA: 3.95

COURSES **Graduate-Level:** Operating Systems, Engineering Programming Languages (mainly C++11), Automated Software Design, Database Systems, Computer Graphics, Advanced Programming Tools (Full-Stack Web and Mobile Application Development)

Undergraduate-Level: Compilers (C++), Algorithms (Java), Computer Architecture, Real-Time OS, Embedded Systems, Honors Data Structures (Java), OOP (mainly C++), Digital Logic Design (VHDL), Cryptography

EXPERIENCE

Sept 2018–... **MICROSOFT. SDE – Edge Engineering System – Build & Developer Workflow**
– Developed a framework to track telemetry about developer inner-loop productivity
– Identified opportunities to improve performance, both systematic and individual (hardware and software config), achieved productivity improvements with minimal cost
– Implemented performance improvements that have saved multiple dev-days per day
– Implemented tooling to support common developer workflows

Sept 2015–2018 **MICROSOFT. Software Development Engineer (SDE) – Chakra JavaScript Team**
– Garbage Collection, Parsing, Bytecode, RegExp, Unicode, Intl (ECMAScript i18n library)
– Migrated ChakraCore to an Open Source project on GitHub and spearheaded Microsoft’s developer community outreach
– Debugging Tools, Build and Test Infrastructure
 o Refactored our build definitions to support both OSS and Internal configurations across multiple infrastructure stacks (Jenkins, ADO)
 o Drove Nightly tests to 100% passing (tens of thousands of tests)

Jan–May 2015 **UT AUSTIN. TA for CS 384G (Graduate Computer Graphics) with Dr. Don Fussell**

Aug–Dec 2014 **UT AUSTIN. TA for CS 392F (Automated Software Design) with Dr. Don Batory**

Jun–Aug 2014 **MICROSOFT. Software Developer (SDE) Intern – Tools for Software Engineering**
– Implemented detours (API hooking) for file-related Windows APIs to monitor file accesses
– Improved algorithm for verification of file accesses from $O(n^2)$ to $O(n \log(n))$

Aug 2013–
May 2014 **OURLY (STARTUP). Web Engineer – Social planning app for web and mobile (Android, iOS)**
– Web design and server infrastructure (built on Node.js)

Jan–May 2014 **UT AUSTIN. TA for EE 360C (Algorithms) with Dr. Christine Julien**

Aug–Dec 2013 **UT AUSTIN. TA for EE 360C (Algorithms) with Dr. Joydeep Ghosh**

Jun–Aug 2013 **MICROSOFT. Software Developer (SDE) Intern – Chakra JIT (JavaScript Engine)**
– Exposed internal-only APIs, and developed a Web 2.0 tool for viewing Chakra JIT
– Developed a plugin for IE11’s F12 tools to aid with optimizing Chakra

Jan–May 2013 **UT AUSTIN. TA for EE 360C (Algorithms) with Dr. Christine Julien**

Jun–Aug 2012 **MICROSOFT. Program Manager (PM) Intern – Dynamics AX: Developer Tools**
– Spec’d and developed a management tool for partners that use TFS source control
– Contributed to a white paper on AX application lifecycle management

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Jun–Aug 2011 **QUALCOMM.** Software Engineering Intern in Test – Multimedia: Audio Team

- Implemented a unit test framework for voice packet verification
- Developed a Test Device Tracker, a company-wide productivity tool

TECH. SKILLS

Programming Languages and Tools

- *Proficient with:* C/C++/C++11/C++14, Python, C#, Java, Git, HTML5/CSS3/JS, Node.js, bash, Powershell, CMD/Batch
- *Comfortable with:* C++17, Assembly (x86, AMD64), Groovy, OpenGL, AutoHotkey, LaTeX, Make, SQL
- *Some experience:* Rust, Lisp (Scheme, GCL, ACL2), PHP, MongoDB, Assembly (ARM Cortex M3, other microcontrollers)

Software

- *Development:* Visual Studio, Vim, JetBrains, Eclipse, Source Control (git, hg, p4, sd, tfs, svn)
- *Productivity:* some home-brewed tools, MS Office, Maxima, MATLAB, Mathematica

PROJECTS

Research Project: MercuryDB (<https://github.com/mercurydb/mercurydb>)
Contributions to **Open Source** (<https://github.com/dilijev>): *wxMaxima*, *mercurydb*
Contributions to a linguistics research paper (**data mining**)
Real-time OS for an ARM Cortex-M3–based embedded system
Suite of **productivity and development tools** in AutoHotkey
Various pet projects: flash-drive virus immunizer, photo tagger, essay analyzer

PATENTS

“Interactive viewer of intermediate representations of client side code.” Patent No. 9639382.
Curtis Man, Douglas Ilijev, Brahama Giri Abhijith Chatra

PUBLICATIONS

“Large-Scale Patterns of Entertainment Gratifications in Linguistic Content of U.S. Films” Lewis, Robert; Grizzard; Lea; Ilijev; Choi; et al. (2017). *Communication Studies*.
– Wrote software to extract information to analyze from GBs of data.

“Collisional Quenching of Erythrosin B. Potential Reference Dye for Impulse Response Function Evaluation.” Szabelski, Ilijev, et al. *Applied Spectroscopy*, Vol. 63, No. 3. Mar. ‘09.
– Studied the frequency response of different concentrations of Erythrosin B.

LANGUAGES

English (native language)
Mandarin (2014–present): A1/A2 (basic) speaking; B1 (lower intermediate) reading, writing
French (2004–2007): A2 (upper-basic) reading; A1 (basic) writing, speaking

ACTIVITIES

Seattle Festival Orchestra: Viola and Violin (‘15–present)
Seattle SAKE Dragon Boat Club: Regularly train and compete in paddling races (‘16–present)
Northwest Mahler Festival Orchestra: Viola (‘12–‘17)
UT University Orchestra (‘09–‘15): *Principal Viola* (‘09–‘10), *Asst. Principal Viola* (Fall ‘10)
HKN (Electrical and Computer Engineering Honors Society): Active Member (Feb ‘10–May ‘15)
EChO Engineering Chamber Orchestra (‘09–‘15)
HKN Officer: *Corp. Relations* (Spring ‘15); *Recording* (Spring ‘12); *Historian* (Fall ‘11, Spring ‘13)
Texas Crew Rowing Team (Spring ‘11)

ACHIEVEMENTS

University Endowed Presidential Merit Scholarship (Spring ‘11, Spring ‘12)
Cockrell Scholarship (Fall ‘09 – Spring ‘13)
ACM Regional Programming Contest 2010 – 2nd place programming team (by tie-break)
TMEA All-State Conference String Orchestra (2010, 2012)
High School All-State Swimming: 400 Free Relay (B Team), 100 Back (Hon. Mention)