

Carlos Alexander Vializ

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programming

Windows & Unix shell,
JS (Node & DOM), C,
Java, Python, C#,
Assembly, Morse,
Smoke signals

WAI-ARIA, WCAG,
HTML5, CSS3,
ECMAScript 6+,
WebSocket,
Extension APIs

React, Angular,
Jasmine, Istanbul,
Grunt/Gulp,
Browserify, \LaTeX

interests

professional:

Responsive web
design, real-time app
development, clean
straightforward code.
Volunteer tutoring
English literacy and
computer skills.

personal:

Aviation/Aerobatics
(C172, Piper Cherokee,
Super Decathlon),
Hiking, Camping,
Climbing, Biking,
Unicycling,
Photography

experience

2015–now **Kifi**

Lead UI/UX Engineer

Mountain View, CA

- Developed and designed Kifi for Teams UI to add an additional layer of information to the architecture of the consumer facing product.
- Maintained extension and code injection framework that must work on all webpages, including dynamically injecting search results into Google. Kifi results now display faster than Google's. Extension currently rated ☆☆☆☆☆ by users.
- Built and enhanced core components of Kifi.com site with AngularJS, including payment processing, profiles, settings, libraries, and the stream.
- Released Safari extension by building abstraction around Safari Extension API.
- Improved keeping UI to use real-time typeahead contacts searches, with client-side caching for responsive performance.

2014–15

Visa, Inc.

Foster City, CA

UI/UX Engineer

- Architected CSS framework for reusable common components, utilizing flexible Node tools e.g. PostCSS.
- Transferred the Visa Checkout SPA from Backbone/Rails to a React/Node.js stack.
- Increased conversion of shopping sales by over 15%, driving millions in transactions.

2012-14

Virginia Tech: Microsoft Secure Infrastructure Services

Blacksburg, VA

Student Software Engineer

- Implemented log-correlation to detect VT account lockouts. Made searchable with ElasticSearch/Kibana.
- Allowed VT network users to pinpoint devices or malicious agents causing lockouts.

2013

Tridium, Inc.

Richmond, VA

Software Engineer Intern

- Developed a reusable HTML5 chart system for the Niagara/BajaScript equipment automation platform.
- Implemented Java annotation processors to reduce boilerplate in Niagara API.

education

2010–14

B.S. Computer Science. Mathematics Minor. Virginia Tech

Blacksburg, VA

Focus: Algorithms and systems programming. Language, parser, and compiler design and implementation. Debugging, from IDE to gdb. Electives: Parallel computing with OpenMP, Pthreads, MapReduce; Human-Computer Interaction, with end-to-end UI/UX design & implementation; Creative Computing Capstone studying the intersection between art, utility, and computation.

qualifications and awards

2013

Private Pilot Certificate

Federal Aviation Administration

2014

Scholarship for Academic Merit

Virginia Tech Computer Science Research Consortium

2013

Scholarship for Academic Merit

Zora and Gilmer Warfield Scholarship Fund

projects

2014–now

The Resistance Universe: Coup

<http://coup.vializ.me>

A realtime, multi-room, online version of Coup, the popular dystopian tabletop game.

2014–now

Aviation Weight and Balance

<http://wab.vializ.me>

An extensible, interactive weight and balance calculator to quickly and safely determine aircraft loading.