
Foodio (SWE):

Presenting June 2



Website: <http://getfoodio.com/>

Location: Charlottesville, VA (on-site)

Company Info:

The Foodio team works tirelessly to improve our product and meet the individual needs of every restaurant we work with. We regularly add features and implement changes requested in feedback from individual partner restaurants. Foodio is more than online ordering: it's the IT team who'll take everything off your plate.

Foodio apps offer features you won't find anywhere else. Customers can quickly and easily re-order past meals, pay in-app, and split the bill with friends. That means your customers can check out your menu and place an order anytime, anywhere. More convenience, more orders, more money in your pocket.

Foodio was one of the first businesses that started out of HackCville.

Job Description:

They have made basic native mobile apps for restaurant owners before, but the process of making each app is fairly time-intensive even though each individual app is very simple (and mostly the same each time).

You'd work on creating a mobile app generator. You'd write a script that puts these simple apps together, packages assets, and sends them to the App Store for approval.

Who you'll be working with:

Rory Stolzenberg, *Co-Founder*

iLab at Darden (SWE):

Presenting June 2



Website: <https://www.ilabatuva.org/>

LinkedIn: <https://www.linkedin.com/company-beta/7165793/>

Location: Charlottesville, VA (On-site; car is ideal)

Company Info:

The i.Lab is a University-wide initiative that creates a nexus for entrepreneurship and innovation education. Its mission is to foster deep cross-collaboration with no boundaries, across disciplines, schools or ways of thinking. The i.Lab provides coaching, courses and incubation to students, faculty and community members innovating the future. Initiatives such as the i.Lab help create a

robust entrepreneurial ecosystem within U.Va. and its surrounding community. The i.Lab is a collaborative effort of 11 schools of the University, the Provost's Office, and U.Va. Innovation.

Job Description:

One marketing, web design, and software engineering intern will work with a variety of companies in the i.Lab incubator to support the development of their businesses. You'll essentially be on-site consultants and help for any kind of front-end, back-end, or marketing help they need throughout the summer. You may also work on a few small projects for the i.Lab itself.

Who you'll be working with:

David Touve, *Director of the i.Lab*

Various i.Lab incubator companies and their founding teams

Nest Realty (SWE - needs 2 interns):

Presenting June 2



Website: <https://www.nestrealty.com/charlottesville/>

LinkedIn: <https://www.linkedin.com/company-beta/5373958/>

Location: Charlottesville, VA (on-site if needed)

Company Info:

Nest Realty is a full-service real estate brokerage specializing in residential, farm, and estate properties. We bring together top agents, cutting-edge technology, and unparalleled service to help clients throughout Charlottesville and Central Virginia buy and sell real estate — and enjoy themselves every step along the way.

They're growing quickly - they currently have 7 offices with 125 realtors and growing. (They're adding a few agents to their team each week.)

Job Description:

Nest manages a direct-mail program for our agents. Realtors get super busy and often don't have time to followup with past clients - this is where the direct-mail program can be helpful. Agent uploads their list to program right now in an Excel spreadsheet. Nest then takes that list, compiles the info, and sends it to their printers.

What they want to do (and what you'd work on) is automating that system. You will build a mini-CRM that's just focused on client and list management for this program. Agents would need to be able to log in and update their list of clients.

After building the initial application, there's some basic functionality they'd like to work in that they'd like to expand further in the future. They would love to have auto-emails to our agents with reminders to add new clients or to follow-up with old clients - things like that. The user interface needs to be simple and easy to use - that's a huge deal to them.

Who you'll be working with:

There is no tech team in-house, but they are familiar with the general process of working with technologists. You'd work directly with Jonathan Kauffman, *Strategy Director*.

Twin Thread (SWE):

Presenting June 2



Website: <https://www.twinthread.com/>

LinkedIn: <https://www.linkedin.com/company-beta/10923946/>

Location: Charlottesville, VA (On-site)

Company Info:

At TwinThread we are building the team and creating the technology to enable you to capitalize on the Industrial Internet now – not by changing your people or your culture - by empowering your domain experts to innovate in ways they never knew were possible.

We are creating the world's first Digital Innovation Platform that brings together process experts, equipment experts, and data experts in a unique way to rapidly create, validate, and monetize Industrial Internet applications.

Job Description:

You'll work with React and Redux on our core product. We have a list of 20-30 projects, ranging from advanced data visualization to Machine Learning assisted hierarchy generation on factory assets to user onboarding UX and UI development. All code you write here will see the light of day and be used by our customers as soon as five minutes after you write it.

Who you'll be working with:

Brent Baumgartner, the best and by far the nicest of the instructors of the Launch SWE track. You'll also get valuable time with Erik Udstuen, the founder of Twinthread (an experienced entrepreneur with 5 companies under his belt).

TypeZero (SWE):

Presenting June 2



Website: <http://typezero.com/>

LinkedIn: <https://www.linkedin.com/company-beta/6441234/>

Location: Charlottesville, VA (On-site)

Company Info:

The world leader in clinically tested artificial pancreas solutions, TypeZero Technologies is a digital health and personalized medicine company dedicated to revolutionizing the treatment and management of diabetes. TypeZero is combining next-generation data science techniques, proven metabolic models, and modern engineering practices to develop customized analytics

tools and blood glucose control solutions to help people with type 1 and type 2 diabetes improve their health and lives. TypeZero's current solutions include a smartphone-based artificial pancreas system, therapy optimization tools for health care providers, and advisory applications for smart insulin pens.

Job Description:

TypeZero is trying to accomplish a few things this summer. One is to make a scientific calorie counter using NLP and go off from that to grab large databases of info to make sense of it in a consistent basis. Additionally, you might aid in developing an Alexa app for gathering info using voice, chatbot. Another item might be evaluating the open source software the firm uses, automating quality analysis, automatically QAing and committing code, checking compliance issues, running tests. Finally, you may be collecting and cataloging disparate datasets, mine for useful understanding of patient studies.

Who you'll be working with:

Jamie Quinn / Colin Steele, Reporting to Jamie. R&D / Engineering, Engineering team.

VA Diodes (SWE):

Presenting June 2



Website: <http://www.vadiodes.com/en/>

LinkedIn: <https://www.linkedin.com/company-beta/244414/>

Location: Charlottesville, VA (On-site)

Company Info:

Virginia Diodes Inc. designs, manufactures and sells millimeter wave and terahertz devices, components, and systems. (These are pieces of test and measurement equipment.) VDI's primary products are detectors, mixers, frequency multipliers, and integrated systems for reliable operation at frequencies between 18 GHz and 2 THz. All VDI components include in-house fabricated GaAs Schottky diodes and microelectronic filter structures. Other products include mesh filters, comb generators, and radiometers for applications above 100 GHz.

VA Diodes is a 70-person company that mostly consists of electrical engineers and technicians. They test the equipment they make using a lot of scripting and automated scripts, built off of Python.

Job Description:

You'll work on some nitty-gritty Python development. They're looking to revise and improve what they currently have. In-house resources are tasked with getting product out the door, and so their code has been a secondary priority but one that's increasingly important.

You'll work on making a bunch of small testing projects and SQL migrations and management systems. Generally speaking their codebase is not as modular and well-organized and well-written as it needs to be, because it was made very quickly - you're going to help improve it.

Who you'll be working with:

Michael Siddall, *Lead Engineer*

Steve Durant, *Group Leader*

Steven Gerhard, *Director of Operations*

PsiKick (SWE):

Presenting June 9



Website: <http://www.psikick.com/>

LinkedIn: <https://www.linkedin.com/company-beta/5238405/>

Location: Charlottesville, VA (On-site)

Company Info:

Maintenance-Free Sensing Systems:

At PsiKick, we are developing next generation, self-powered, wireless sensing systems built upon our breakthroughs in ultra-low-power circuit design. The extreme energy efficiency of our devices enables them to be powered without a battery or wire, from a variety of sources including indoor solar, radio waves, thermal gradients, and vibration.

Liberating sensing capabilities from the terrors of wires and battery replacements unlocks an entirely new world: one in which applications which weren't economic before suddenly are; one in which systems can scale to provide the granular data that's always been needed to gain critical insight, but never been available.

We believe in a future where sensing and computation is available wherever and whenever it's needed. Without the constraints imposed by batteries and wires. Join us, and you'll help create that future.

Job Description:

n/a

Who you'll be working with:

John Greenfield, Brian Alessi, Ben Calhoun (one of our founders and UVA Professor), and SW Team (a couple of different members)

RoomKey (SWE):

Presenting June 9



Website: <https://www.roomkey.com/>

LinkedIn: <https://www.linkedin.com/company-beta/2934949/>

Location: Charlottesville, VA (On-site)

Company Info:

Room Key is an experience-tailored hotel search engine created by six of the world's leading hotel companies. The personalized service enables travelers to quickly and easily compare value for their stay – based on specific attributes and preferences most important to individual guests – and book directly with more than 100 leading hotel brands in 159 countries around the world. With a continued focus on providing consumers the best, personalized value for their trip, Room Key also allows travelers to compare properties based on the pricing and benefits associated with their respective hotel frequent guest programs – something that cannot be done on any other online travel booking site.

Room Key was founded in 2012 by Choice Hotels International, Hilton Worldwide, Hyatt Hotels Corporation, InterContinental Hotels Group, Marriott International, Inc. and Wyndham Hotel Group, part of the Wyndham Worldwide Corporation, or their respective affiliates.

Job Description:

Main front-end application is a single-page JS application. It's currently something we're in the middle of porting to React and Redux. Helping us to continue that effort. Potentially some feature work as well, but definitely infrastructure stuff. They'd be working under

Who you'll be working with:

Gerome, their lead front-end developer.

Roots Natural Kitchen (SWE - needs 2 interns):

Presenting June 9



Website: <http://www.rootsnaturalkitchen.com/>

LinkedIn: <https://www.linkedin.com/company-beta/10166299/>

Location: Charlottesville, VA (@ HackCville)

Company Info:

Cozy, counter-serve diner with eco-chic decor offering create-your-own vegetarian bowls.

Job Description:

You're going to help build a point-of-sale system from scratch that goes above and beyond what all the industry off-the-shelf solutions do right now. Existing POS systems are not built for general managers of restaurants - you have to wait days to get sales reports, they have little-to-know staff scheduling functionality, and they often offer no technical support.

You'll help to build a predictive analytics and scheduling system into a new POS. This is everything from "It started to rain, we predict your sales will go down X amount." to "Because of your reduced sales, X person should go home since this level of staffing is no longer needed." There's a lot that can be done here, from automatic scheduling based on different employees' availability to frequent customer tracking and analysis.

Who you'll be working with:

Albert Namnum, General Manager

The Festy Experience (SWE):

Presenting Date TBD

Website: <http://www.thefesty.com/#introPage>

LinkedIn: n/a

Location: Arrington, VA



Company Info:

The 8th Annual Festy Experience will be held October 5-8th, 2017 at Infinity Downs Farm in Nelson County, VA. Throughout our seven-year history, we've worked hard to produce a festival experience that illustrates our core values: a carefully curated lineup of exceptional musical artists, a love of craft food & beer, an appreciation for connected outdoors experiences, and an always Family-Friendly atmosphere. Wrap all of those together into one big weekend of raging good times, and you've got The Festy Experience. It's still technically a holiday weekend, so you might not have to work on Monday (and if not, perhaps you should go ahead and take off Monday anyway)!

Job Description:

You'll be working with the CEO of Festy to create a backend database that collects and makes sense of multiple points of contact with Festy's thousands of customers. You will be creating a best in class system for festival customer management (and probably get to listen to lots and lots of cool music.)

Who you'll be working with:

Michael Allenby, CEO

Focused Ultrasound Foundation (SWE):

Presenting Date TBD

Website: <https://www.fusfoundation.org/>

LinkedIn: <https://www.linkedin.com/company-beta/807202/>

Location: Charlottesville, VA



Company Info:

The Focused Ultrasound Foundation was created to improve the lives of millions of people worldwide by accelerating the development of focused ultrasound, an early-stage noninvasive therapeutic technology with the potential to transform the treatment of many medical disorders.

The Foundation is dedicated to ensuring that focused ultrasound finds its place as a mainstream therapy within years, not decades, and works to fund research, foster collaboration, and build awareness among patients and professionals. Since its establishment in 2006, it has become the largest non-governmental source of funding for focused ultrasound research. More information can be found at www.fusfoundation.org.

Job Description:

You'll be working with the Foundation's senior developer to create tools to better manipulate data from focused ultrasound technologies for brain imaging.

Who you'll be working with:

John Snell, Senior Developer

The Front Porch (SWE):

Presenting Date TBD



Website: <http://frontporchcville.org/>

LinkedIn: n/a

Location: Charlottesville, VA

Company Info:

The Front Porch is a non-profit roots music school based in Charlottesville, Virginia. Our warm, family-friendly environment is a place where inspiration happens: we host classes, workshops, master classes, weekly jams, and performances. Our talented instructors, each professional musicians themselves, offer lessons and group classes in a variety of musical styles, including bluegrass, old time, gospel, acoustic blues, and folk. We are dedicated to educating and experiencing traditional, roots, and folk music and dance.

Inspired by the rich musical heritage of Central Virginia, The Front Porch seeks to create a strong, vibrant musical community comprised of music lovers of all ages, abilities and backgrounds. As a non-profit organization, it is our mission to make music inclusive, affordable, and accessible to all. To that end, we offer scholarships, present lots of free programming, and we have priced our classes at a level that is below the national average without compromising the pay scale of our teachers.

Job Description:

You'll be working with the school's executive director and director of operations to build a custom database system combining the schools customer relationship management, donor management, tickets, and class-scheduling systems.

Who you'll be working with:

Emily Morrison, *Executive Director*

Solovis (SWE):

Presenting Date TBD

Website: <https://www.solovis.com/>

LinkedIn: <https://www.linkedin.com/company-beta/3537233/>

Location: Charlottesville, VA

Company Info:

Solovis is a multi-asset class portfolio management and reporting solution for foundations, endowments, pensions, OCIOs and family offices. Specifically designed and built for the age of open architecture asset management, Solovis is a flexible, robust platform created to generate detailed analysis and dynamic data modeling across multiple portfolios and pools of capital for actionable, transparent reports that empower investors spanning the front to back office.

Job Description:

You'll be working with senior developers to create tools to do better data integration for onboarding new clients on their portfolio management system.

Who you'll be working with:

Ted Meissner, COO